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DATE AND LOCAL TIME 30 MAY 2001, 2:00 P.M.								

SECTION B SUPPLIES OR SERVICES AND PRICES/COSTS

B10 SUPPLIES/SERVICES AND PRICES

CONTRACT TYPE: ALL ITEMS, WITH THE EXCEPTION OF 0007 AND 0011 ARE FIRM FIXED PRICE. ITEMS 0007 AND 0011 ARE TIME-AND-MATERIAL.

<u>ITEM</u>	SUPPLIES/SERVICES	<u>QTY</u>	<u>UNI</u>	<u>U/PRICE</u>	<u>AMOUNT</u>
0001	In-air tracking system (core requirement), including related training material, per Attachments 1, 2:				
0001AA	In-air tracking system	1	EA	\$	\$
0001AB	Training- related services	1	LO	\$	\$
0002	Data per Exhibit "A", Contract Data Requirements List (CDRL) DD Form 1423	1	LO	NSP*	NSP*
0003	OPTION #1- Critical spare parts** for the Inair tracking system (core requirement)	1	LO	\$	\$
0004	OPTION #2- In-air surveillance subsystem, per Attachments #1 (Section 4.9) and Attachment #3:				
0004AA	In-air surveillance capability	1	EA	\$	\$
0004AB	Training-related services	1	LO	\$	\$
0005	OPTION #3- Critical spare parts** for the inair surveillance subsystem	1	LO	\$	\$

Offerors shall complete the unit price and amount blocks.

NOTE: THE MAXIMUM FUNDING ANTICIPATED FOR THIS PROCUREMENT (INCLUDING OPTIONS) IS <u>\$5 MILLION</u>.

B42 OPTION FOR SPECIFIC LINE ITEMS

The additional items of supplies or services available under the Options clause of this contract and their exercise dates are specified below:

CLIN	Option	Exercise Date
0003	#1- critical spare parts for the in-air	Within 12 months of contract award
	tracking system (core reqmt)	
0004	#2- in-air surveillance subsystem	Within 12 months of contract award
0005	#3- critical spare parts for the in-air	Within 12 months of contract award
	surveillance subsystem	

^{*} NSP= Not Separately Priced- price of data is included in the price of the applicable CLIN.

^{**} as defined by the applicable specification.

SECTION C DESCRIPTION / SPECIFICATIONS/WORK STATEMENT

C20 INCORPORATION OF TECHNICAL PROPOSAL (AUG 2000)

- (a) The contractor's technical proposal is hereby incorporated by reference as a specification. The technical proposal shall have lower precedence than any other specification. Any exceptions to contract clauses or other terms included in the technical proposal shall not apply unless specifically identified in the award document.
- (b) The Contractor shall not change or otherwise deviate from the content of the technical proposal without prior written approval of the Contracting Officer.
- (c) In the event of conflict between the provisions of the technical proposal and any other provisions of this contract (including, but not limited to, the Statement of Work), the conflict shall be resolved in accordance with the clause entitled, Order of Precedence -- Uniform Contract Format (FAR 52.215-8).

C25R ACCESS TO GOVERNMENT SITE (AUTEC)

- (a) Contractor personnel shall comply with all current badging and security procedures required to gain access to any Government site.
- (b) By accepting a badge in connection with a visit to the AUTEC site, Andros Island, contractor personnel consent to an examination of their person, personal belongings, and such other property as they have brought with them. Proof of U.S. citizenship is required. The authority of this examination is in implementation of the Maintenance and Operation (M&O) Contractor's obligations regarding the control and regulations of peoperty, and the rules promulgated by the U.S. Navy regarding personal conduct at the AUTEC Project (APP 9-5C).
- (c) Contractor personnel are required to wear their AUTEC identification badge properly displayed in clear view above the waist, clipped to the front of another garment or suspended from a chain at all times while on the AUTEC site (recreational events excluded) per APP 4-11G.
- (d) Visitors who do not have approved AUTEC on-base housing are presumed to have off-base quarters. Visitors who do not have authorized on-base quarters are required to exit the base each night within 30 minutes after closing the TFC lounge. Reentry on base shall not be until after 0700 hours. Contractor employees shall conduct themselves in an appropriate manner at all times. Contractor employees shall not enter areas classified as "restricted" unless they have obtained proper, prior approval.
- (e) The contractor shall remove from the Government site any individual whose presence is deemed by the AUTEC Security Officer, to be contrary to the public interest or inconsistent with the best interests of national security. This includes the violation of security procedures, housing regulations, or base regulations and will result in both the revocation of the visitor's badge and disciplinary action against the sponsor (APP 4-11G).

SECTION D PACKAGING AND MARKING

D11 PRESERVATION, PACKAGING, PACKING AND MARKING

Preservation, packaging, packing, and marking shall be in accordance with ASTM-D-3951-95, "Standard Practice for Commercial Packaging". Additionally, the Contractor shall mark all packages with the following, as appropriate:

CONTRACT NUMBER: (from DD Form 144/ Block 2 or DD Form 1155 Block 1)						
DELIVERY ORDER NUMBER (if an Indefinite Delivery contract): (from DD Form 1155 Block 2)						
REQUISITION NUMBER: (from DD Form 1447, except for delivery orders use DD Form 1155 Block 4)						
MARK FOR:						
Name	Code	Telephone No.				

D20 DELIVERY OF DATA

- (a) Data furnished hereunder shall be adequately packaged to assure safe delivery at destination.
- (b) Transmittal of classified information by mail shall be in accordance with the National Industrial Security Program Operating Manual (NISPOM) for Safeguarding Classified Information (DOD 5220.22-M).
- (c) All copies of CDRL items under this contract, regardless of distribution, shall be marked on the report cover with the following information:

Naval Undersea Warfare Center Division, Newport Contract, Delivery Order, and ELIN Numbers Report Title Date of Report Contractor Name (division which generated the report)

D24 PROHIBITED PACKING MATERIALS

The use of asbestos, excelsior, newspaper or shredded paper (all types including waxed paper, computer paper and similar hygroscopic or non-neutral material) is prohibited. In addition, loose fill polystyrene is prohibited for shipboard use.

D26 UNPACKING INSTRUCTIONS

- (a) <u>Location on Container</u>. When practical, one set of the unpacking instructions will be placed in a heavy water-proof envelope prominently marked "UNPACKING INFORMATION" and firmly affixed to the outside of the shipping container in a protected location, preferably between the cleats on the end of the container adjacent to the identification marking. If the instructions cover a set of equipment packed in multiple containers, the instructions will be affixed to the number one container of the set. When the unpacking instructions are too voluminous to be affixed to the exterior of the container, they will be placed inside and directions for locating them will be provided in the envelope marked "UNPACKING INFORMATION".
- (b) <u>Marking Containers</u>. When unpacking instructions are provided shipping containers will be stenciled "CAUTION-THIS EQUIPMENT MAY BE SERIOUSLY DAMAGED UNLESS UNPACKING INSTRUCTIONS ARE CAREFULLY FOLLOWED. UNPACKING INSTRUCTIONS ARE LOCATED (state where located)." When practical, this marking will be applied adjacent to the identification marking on the side of the container.

SECTION E INSPECTION AND ACCEPTANCE

The following contract clauses are hereby incorporated by reference:

	<u>Number</u>	<u>Title</u>	<u>Date</u>
	52.246-2	INSPECTION OF SUPPLIES - FIXED PRICE	(AUG 1996)
	52.246-16	RESPONSIBILITY FOR SUPPLIES	(APR 1984)
	252.246-7000	MATERIAL INSPECTION AND RECEIVING REPORT	(DEC 1991)
E9	INSPECTIO	ON AND ACCEPTANCE - ORIGIN <u>and</u> DESTINATION (HARDWA)	RE) –
	(AUG 1999)		

(a) <u>Initial</u> inspection and acceptance of the supplies being furnished shall be made by the designated Contract Administration Office Quality Assurance Representative (CAO-QAR) at the following Contractor's or subcontractor's plant:

(as designated in K15-6, "Place of Performance").

Where the contract provides for Government procurement quality assurance actions at origin, the place(s) designated for such actions may not be changed without authorization of the Procuring Contracting Officer.

- (b) The Government requires advance notice of inspection per FAR 52.246-2, "Inspection of Supplies Fixed Price, para. (i)(2). The contractor shall notify the CAO-QAR as follows:
- (1) CLINs/SCLINS: <u>0001</u>; <u>0003</u> (option #1); <u>0004</u> (option #2); <u>0005</u> (option #3); if those options are exercised
 - (2) Period of Advance Notice: ten (10) working days
 - (3) Method of Advance Notice: fax or written
- (c) <u>Final</u> inspection and acceptance of the furnished supplies shall be made at destination by <u>the COR or Alternate</u> <u>COR designated in clause G17.</u>
- (d) The receiving activity shall execute the acceptance certificate on the Material Inspection and Receiving Report (MIRR), DD Form 250 within thirty (30) days of receipt. The receiving activity shall forward the executed payment copy of MILSCAP Format Identifier PKN or PKP to the payment office within four working days (five days when MILSCAP Format is used) after final inspection and acceptance of the shipment. The receiving activity shall forward one executed copy of the final DD Form 250 to: the contract administration office cited in block 12 of the contract award page (SF1447), with 1 copy to the Procuring Contracting Officer cited in clause G10 and 1 copy to the contractor.

E15R WITNESS OF INSPECTION OR TESTS

- (a) Because of the critical nature of the material being furnished hereunder, a representative of the Naval Undersea Warfare Center Division, Newport is available to furnish technical assistance on quality control matters and shall have the option of conducting Quality Assurance surveillance of inspections and tests performed by the Contractor. The surveillance will be performed in conjunction with the Defense Contract Management Command (DCMC) Quality Assurance representative, if assigned, and does not abrogate the responsibility or authority of such DCMC representative. The Contractor agrees to notify * (the Government individual designated at time of award), in wiriting or by fax, when the material will be inspected and/or tested. A minimum of fifteen (15) working days is required to arrange such a visit, and shall provide reasonable facilities for observation and witnessing of all tests by Government personnel.
- (b) The contractor shall keep complete records of conducted inspections and tests to determine compliance with applicable specifications. The records shall be available for review by Government representatives at all times. The record or report of inspection and/or test shall be signed or approved by a responsible contractor person specifically assigned the authority to do so. Any tests required to demonstrate performance in accordance with applicable specifications shall be performed by the contractor on all delivered units except where noted differently in the specification.

E30 CERTIFICATION OF TRAINING - APPLIES TO TRAINING SCLINS ONLY

Upon course completion the Contractor shall obtain from * certification that the total course length, content, and, if applicable, disposition of training materials were in accordance with the terms of the contract. The Contractor shall attach the certificate to the next invoice after course completion.

* Government representative designated at time of award.

SECTION F DELIVERIES OR PERFORMANCE

The following contract clauses are hereby incorporated by reference:

<u>Number</u>	<u>Title</u>	<u>Date</u>
52.211-16	VARIATION IN QUANTITY para.(b) fill-ins:	(APR 1984)
	variation shall be limited to: <u>zero</u> percent increase	
	zero percent decrease	
	shall apply to: the total contract quantity.	
52.242-15	STOP-WORK ORDER	(AUG 1989)
52.242-17	GOVERNMENT DELAY OF WORK	(APR 1984)
52.247-34	F.O.B. DESTINATION	(NOV 1991)

F18R DELIVERY AT DESTINATION (AUG 1999)

The articles to be furnished hereunder shall be delivered in accordance with the clause entitled, F.O.B. Destination (FAR 52.247-34), to the following address:

a) for shipment, by weekly barge, to AUTEC (parcels only):

Raytheon Range Systems Engineering P. O. Box 955

Cape Canaveral, FL 32920-0955

b) for shipment by weekly barge to AUTEC (larger shipments):

U.S. Army Outport Raytheon Range Systems Engineering Attn: J. Lunder Building 1063 Cape Canaveral, FL 32920

F19R DELIVERY AND INSTALLATION

- (a) The articles to be furnished hereunder shall be installed by the Contractor at: the Atlantic Undersea Test and Evaluation Center (AUTEC) located on Andros Island in the Bahamas
- (b) The Contractor shall pay most transportation* and all installation charges.
- (c) The contractor shall comply with the Logistics/Transportation restrictions, as stated in Attachment #4.
- (d) The Contractor is responsible for making all needed arrangements for its personnel to travel to AUTEC. This includes but is not limited to travel reservations, medical examinations, immunization, passports, visas, and security clearances.

F22 DELIVERY OF DATA

Place and time of delivery of data shall be as specified on the DD Form 1423, Contract Data Requirements List (CDRL), which is an exhibit to this contract. Any change in the delivery of data must be made by a formal modification to the delivery order.

^{*} as noted in Attachment #4, some transportation may be accomplished at no cost to the contractor.

F40 CONTRACTOR PERFORMANCE ASSESSMENT RATING SYSTEM (CPARS) (AUG 1999)

- (a) Pursuant to FAR 42.1502, this contract is subject to DoD's Contractor Performance Assessment System (CPARS). CPARS is an automated centralized information system accessible via the Internet that maintains reports of contractor performance for each contract. CPARS is located at http://www.nslcptsmh.navsea.navy.mil. Further information on CPARS is available at that web-site.
- (b) Under CPARS, the Government will conduct annual evaluations of the contractor's performance. The contractor has thirty (30) days after the Government's evaluation is completed to comment on the evaluation. The opportunity to review and comment is limited to this time period and will not be extended. Failure to review the report at this time will not prevent the Government from using the report.

(c) The CPARS system requires the Government to assign the contractor a UserID and password in order to view
and comment on the evaluation. Provide the name(s) of at least one individual (not more than three) that will be
assigned as your Defense Contractor Representative for CPARS.

<u>Name</u>	<u>Phone</u>	E-mail Address (optional)

F11-8 TIME OF DELIVERY (FAR 52.211-8) (JUL 1995)

(a) The Government requires delivery to be made according to the following schedule:

REQUIRED DELIVERY SCHEDULE

ITEM NUMBER	OUANTITY	DUE DATE
0001	1	18 months after contract award
0002	All	Per CDRL, Exhibit A
0003 (if option #1 exercised)	All	18 months after contract award*
0004 (if option #2 is exercised)	1	18 months after contract award*
0005 (if option #3 is exercised)	All	18 months after contract award*

^{*} The Government's intent is to have all system components and spare parts (if applicable options are exercised) arrive at AUTEC simultaneously.

The Government will evaluate equally, as regards time of delivery, offers that propose delivery of each quantity within the applicable delivery period specified above. Offers that propose delivery that will not clearly fall within the applicable required delivery period specified above, will be considered nonresponsive and rejected. The Government reserves the right to award under either the required delivery schedule or the proposed delivery schedule, when an offeror offers an **earlier** delivery schedule than required above. If the offeror proposes no other delivery schedule, the required delivery schedule above will apply.

OFFEROR'S PROPOSED DELIVERY SCHEDULE

ITEM NUMBER	QUANTITY	WITHIN DAYS AFTER DATE OF CONTRACT

(b) Attention is directed to the Contract Award provision of the solicitation that provides that a written award or acceptance of offer mailed, or otherwise furnished to the successful offeror, results in a binding contract. The Government will mail or otherwise furnish to the offeror an award or notice of award not later than the day award is dated. Therefore, the offeror should compute the time available for performance beginning with the actual date of award, rather than the date the written notice of award is received from the Contracting Officer through the ordinary mails. However, the Government will evaluate an offer that proposes delivery based on the Contractor's date of receipt of the contract or notice of award by adding (i) five days for delivery of the award through the ordinary mails, or (ii) one working day if the solicitation states that the contract or notice of award will be transmitted electronically. (The term "working day" excludes weekends and U.S. Federal holidays. If, as so computed, the offered delivery date is later than the required delivery date, the offer will be considered nonresponsive and rejected.

F47-023 TRANSPORTATION OF SUPPLIES BY SEA (DFARS 252.247-7023) (NOV 1995)

(a) Definitions.

- (1) "Components" means articles, materials, and supplies incorporated directly into end products at any level of manufacture, fabrication or assembly by the Contractor or any subcontractor.
- (2) "Department of Defense" (DoD) means the Army, Navy, Air Force, Marine Corps, and defense agencies.
- (3) "Foreign flag vessel" means any vessel that is not a U.S.-flag vessel.
- (4) "Ocean transportation" means any transportation aboard a ship, vessel, boat, barge, or ferry through international waters.
- (5) "Subcontractor" means a supplier, materialman, distributor, or vendor at any level below the prime contractor whose contractual obligation to perform results from, or is conditioned upon, award of the prime contract and who is performing any part of the work or other requirement of the prime contract. However, effective May 1, 1996, the term does not include a supplier, materialman, distributor, or vendor of commercial items or commercial components.
- (6) "Supplies" means all property, except land and interests in land, that is clearly identifiable for eventual use by the DoD, or owned by the armed services, at the time of transportation by sea.
 - (i) An item is clearly identifiable for eventual use by the DoD if, for example, the contract documentation contains a reference to a DoD contract number or a military destination.
 - (ii) "Supplies" includes (but is not limited to) public works; buildings and facilities; ships; floating equipment and vessels of every character, type, and description, together with parts, subassemblies, accessories, and equipment; machine tools; material; equipment; stores of all kinds; end items; construction materials; and components of the foregoing.
- (7) "U.S.-flag vessel" means a vessel of the United States or belonging to the United States, including any vessel registered or having national status under the laws of the United States.
- (b) The Contractor shall employ U.S.-flag vessels in the transportation by sea of any supplies to be furnished in the performance of this contract. The Contractor and its subcontractors may request that the Contracting Officer authorize shipment in foreign-flag vessels, if the Contractor or a subcontractor believes that--
 - (1) U.S.-flag vessels are not available for timely shipment;

- (2) The freight charges are excessive or unreasonable; or
- (3) Freight charges are higher than charges to private persons for transportation of like goods.
- (c) The Contractor must submit any request for use of other than U.S.-flag vessels in writing to the Contracting Officer at least 45 days prior to the sailing date necessary to meet its delivery schedules. The Contracting Officer will process requests submitted after such date(s) as expeditiously as possible, but the Contracting Officer's failure to grant approvals to meet the shipper's sailing date will not of itself constitute a compensable delay under this or any other clause of this contract. Requests shall contain at a minimum--
 - (1) Type, weight, and cube of cargo;
 - (2) Required shipping date;
 - (3) Special handling and discharge requirements;
 - (4) Loading and discharge points;
 - (5) Name of shipper and consignee;
 - (6) Prime contract number; and
 - (7) A documented description of efforts made to secure U.S.-flag vessels, including points of contact (with names and telephone numbers) with at least two U.S.-flag carriers contacted. Copies of telephone notes, telegraphic and facsimile message or letters will be sufficient for this purpose.
- (d) The Contractor shall, within 30 days after each shipment covered by this clause, provide the Contracting Officer and the Division of National Cargo, Office of Market Development, Maritime Administration, U.S. Department of Transportation, Washington, DC 20590, one copy of the rated on board vessel operating carrier's ocean bill of lading, which shall contain the following information--
 - (1) Prime contract number;
 - (2) Name of vessel;
 - (3) Vessel flag of registry;
 - (4) Date of loading;
 - (5) Port of loading;
 - (6) Port of final discharge;
 - (7) Description of commodity;
 - (8) Gross weight in pounds and cubic feet if available;
 - (9) Total ocean freight in U.S. dollars; and
 - (10) Name of the steamship company.
- (e) The Contractor agrees to provide with its final invoice under this contract a representation that to the best of its knowledge and belief--
 - (1) No ocean transportation was used in the performance of this contract;
 - (2) Ocean transportation was used and only U.S.-flag vessels were used for all ocean shipments under the contract;
 - (3) Ocean transportation was used, and the Contractor had the written consent of the Contracting Officer for all non-U.S.-flag ocean transportation; or
 - (4) Ocean transportation was used and some or all of the shipments were made on non-U.S.-flag vessels without the written consent of the Contracting Officer. The Contractor shall describe these shipments in the following format:

ITEM DESCRIPTION

CONTRACT LINE ITEMS

QUANTITY

TOTAL

- (f) If the final invoice does not include the required representation, the Government will reject and return it to the Contractor as an improper invoice for the purposes of the Prompt Payment clause of the contract. In the event there has been unauthorized use of non-U.S.-flag vessels in the performance of this contract, the Contracting Officer is entitled to equitably adjust the contract, based on the unauthorized use.
- (g) The Contractor shall include this clause, including this paragraph (g) in all subcontracts under this contract, which exceed the simplified acquisition threshold in Part 13 of the Federal Acquisition Regulation.

SECTION G CONTRACT ADMINISTRATION DATA

G10 CONTRACTUAL AUTHORITY AND COMMUNICATIONS

- (a) Except as specified in subparagraph (b) below, no order, statement, or conduct of any Government personnel who visit the Contractor's facilities or in any other manner communicates with Contractor personnel during the performance of this contract shall constitute a change under the Changes clause of this contract.
- (b) The Contractor shall not comply with any order, direction or request of Government personnel unless it is issued in writing and signed by the Contracting Officer, or is pursuant to specific authority otherwise included as a part of this contract.
- (c) The Contracting Officer is the only person authorized to approve changes in any of the requirements of this contract and, notwithstanding provisions contained elsewhere in this contract, the said authority remains solely the Contracting Officer's. In the event the contractor effects any change at the direction of any person other than the Contracting Officer, the change will be considered to have been made without authority and no adjustment will be made in the contract price to cover any increase in charges incurred as a result thereof.
- (d) The Government reserves the right to administratively transfer authority over this contract from the individual named below to another Contracting Officer at any time.
- (e) (For Indefinite Delivery contracts only) Ordering Officers are Contracting Officers of the Naval Undersea Warfare Center Division, Newport. However, their authority extends only to the delivery order which they sign.

(f) The address and telephone number of the Contracting Officer is:

Name: Nancy A. Teasdale

Address: Commercial Acquisition Department, Building 11

Naval Undersea Warfare Center Division, Newport

Code 5911

Simonpietri Drive

Newport, RI 02841-1708

Telephone: Commercial: (401) 832-<u>1898</u>; DSN: 920-<u>1898</u>

Email: TEASDALENA@NPT.NUWC.NAVY.MIL

G11 CONTRACT ADMINISTRATION FUNCTIONS (SERVICES)

(a) The cognizant Administrative Contracting Office for this contract is identified in Block 12 on page one of this contract.

- (b) <u>PCO RETAINED FUNCTIONS</u>. The Procuring Contracting Officer (PCO) <u>retains</u> the administrative functions described in FAR 42.302(a) and listed below. These functions will be accomplished as set forth in the Contract Administration Plan or Contract Administration Master Plan, as applicable, Attachment #4.
 - (3) Conduct post-award orientation conferences.
 - (40) Perform engineering surveillance to assess compliance with contractual terms for schedule, cost, and technical performance in the areas of design, development, and production.
 - (44) Perform engineering analyses of contractor cost proposals.
 - (45) Review and analyze contractor-proposed engineering and design studies and submit comments and recommendations to the contracting office, as required.
 - (46) Review engineering change proposals for proper classification, and when required, for need, technical adequacy of design, producibility, and impact on quality, reliability, schedule, and cost; submit comments to the contracting office.
 - (47) Assist in evaluating and make recommendations for acceptance or rejection of waivers and deviations.
- (c) **ACO DELEGATED FUNCTIONS**. The Administrative Contracting Officer (ACO) is <u>delegated</u> the following functions:
 - (1) All other functions of FAR 42.302(a) *except* (3), (40), (44), (45), (46), and (47).
 - (2) The function of FAR 42.302(b)(4); negotiating and executing supplemental agreements providing for the deobligation of unexpended dollar balances considered excess to known contract requirements, and for the crediting of any overpayments made to the contractor. Attach a copy of the modification to the DD 1594 and forward to the PCO address (Attn: Code 5912 -- CLOSEOUT)
 - (3) The function of FAR 42.302(b)(6).
- (d) If the ACO identifies a contract administration problem, the remedy for which is not covered by the above, the ACO shall request the PCO to delegate additional functions as necessary. The PCO may delegate authority by letter.

G14 CONTRACTOR'S SENIOR TECHNICAL REPRESENTATIVE

The contractor's senior technical representative, point of contact for performance under this contract is:

Name	*		
Name: Title:			
Address:			
Telephone:			
-			
* Offeror shall fill in	the above information.		
G15 NOTE T	O PAYMENT OFFICE - A	DDRESS OF PAYEE	
The Paying Office w	vill mail payments to:		
*			
-			
		payments to be sent to an address inform the paying office of this ac	
G17 COR AP	POINTMENT		
(a) The Contracting (COR) for this contr		ollowing individual as the Contrac	cting Officer's Representative
COR:	Name: *	Code	: <u>*</u>
Mailing Address:	Naval Undersea Warfare Co 1176 Howell Street Building: Room: _ Newport, RI 02841-1708	enter Division, Newport	
Telephone:	Commercial: (401) 832;	DSN: 920	
•	onsible for those specific function Plan as applicable, Attac	ctions assigned in the Contract Adhment #10.	lministration Master Plan, or
shall be the responsi		med above, all responsibilities and cting on behalf of the COR. The COR.	<u>e</u>
ALT.COR:	Name: *	Code	: _*
Telephone:	Commercial: (401) 832;	DSN: 920	
(d) Only the Contract	ting Officer has the authority	to modify the terms of the contra	ct. Therefore, in no event will

any understanding, agreement, modification, change order, or other matter deviating from the terms of the basic

contract between the contractor and any other person be effective or binding on the Government. If, in the opinion of the contractor, an effort outside the existing scope of the contract is requested, the contractor shall promptly notify the PCO in writing. No action shall be taken by the contractor unless the PCO or ACO has issued a formal modification.

* to be designated at time of award.

G24 DELAY IN DELIVERY NOTIFICATION

The cognizant CAS component shall, in accordance with FAR 42.1104(a)(vii), notify the Procuring Contracting Officer of any anticipated or actual delay in delivery or performance of this contract.

G34 REQUESTS FOR PROGRESS PAYMENTS (JUL 1999)

- (a) The contractor shall submit all requests for progress payments on a SF 1443 "Contractors Request for Progress Payment" form, completed in accordance with the instructions on the reverse side of the form and the clause entitled "Progress Payments" incorporated by reference in Section I, as follows:
 - (1) <u>Initial (#1) progress payment</u> 5 copies to the Administrative Contracting Officer (ACO) cited in block 12 of the award cover page (SF 1447) for certification.
 - (2) <u>Subsequent progress payments</u> 4 copies directly to the cognizant Paying Office cited in block 14 of the award cover page (SF 1447), with 1 informational copy to the ACO.
 - (3) Final invoices per the applicable clause in Section I entitled, SUBMISSION OF INVOICES.
- (b) If the contract includes First Article Test units, per FAR clause 52.209-3 or 52.209-4 (incorporated by reference in Section I of the contract) the Contractor shall not receive progress payments for the acquisition of materials or components for the commencement of production of the balance of the contract quantity until the Government has formally approved the First Article units.

SECTION H SPECIAL CONTRACT REQUIREMENTS

H20 INSURANCE - WORK ON A GOVERNMENT INSTALLATION

The following types of insurance are required in accordance with the clause entitled, Insurance - Work On A Government Installation (FAR 52.228-5), and shall be maintained in the minimum amounts shown:

- (1) Comprehensive General Liability: \$200,000 per person and \$500,000 per accident for bodily injury.
- (2) Automobile Insurance: \$200,000 per person and \$500,000 per accident for bodily injury and \$20,000 per accident for property damage.
- (3) Standard Workmen's Compensation and Employer's Liability Insurance (or, where maritime employment is involved, Longshoremen's and Harbor Worker's Compensation Insurance) in the minimum amount of \$100,000.

H23 YEAR 2000 WARRANTY – INFORMATION TECHNOLOGY

(a) The Contractor warrants that all information technology (IT) (as defined at FAR 2.101), whether commercial or noncommercial, delivered under this contract that will be required to perform date/time processing involving dates subsequent to December 31, 1999, shall be Year 2000 compliant if properly installed, operated, and maintained in

accordance with the contract specifications and applicable documentation. If the contract requires that specific deliverables operate together as a system, this warranty shall apply to those deliverables as a system.

- (b) "Year 2000 compliant" (as defined at FAR 39.002) means that the IT accurately processes date/time data (including, but not limited to, calculating, comparing, and sequencing) from, into, and between the twentieth and twenty-first centuries, and the years 1999 and 2000 and leap year calculations, to the extent that other IT, used in combination with the IT being delivered, properly exchanges date/time data with it. The "proper exchange" of date/time data shall be in accordance with the interface requirements specification(s) of the contract.
- (c) For line item deliverables which are commercial items (as defined at FAR 2.101), and which include commercial IT, the terms and conditions of the standard commercial warranty covering such commercial IT shall apply in addition to, and to the extent such terms and conditions are consistent with, this warranty. Any applicable commercial warranty shall be incorporated into this contract by attachment.
- (d) Notwithstanding any provision to the contrary in other warranty requirement(s) of this contract, or in the absence of any such warranty requirement(s), the remedies available to the Government under this warranty shall include those provided in the Inspection clause(s) of this contract. Nothing in this warranty shall be construed to limit any rights or remedies the Government may otherwise have under this contract.
- (e) Unless specified elsewhere in the contract, the Contractor will also deliver to the Government a report summarizing any Year 2000 compliance testing that was performed, and the results thereof.
- (f) This warranty shall expire on 31 January 2001, or one hundred eighty (180) days after acceptance of the last deliverable IT item under this contract (including any option exercised hereunder), whichever is later.

H50 SUBCONTRACTING PLAN

The Contractor's Small Business and Small Disadvantaged Business Subcontracting Plan dated *, number * is determined to be acceptable and is hereby incorporated by reference. The Contracting Officer shall furnish a copy of the approved plan to the Administrative Contracting Officer (ACO). The ACO shall monitor contractor compliance.

* To be completed at time of award, if awardee is required to have such a Plan.

H52 PRIOR WRITTEN PERMISSION REQUIRED TO SUBCONTRACT

None of the <u>services</u> (for ex., training-related services) required by this contract shall be subcontracted to or performed by persons other than the contractor or the contractor's employees without the prior written approval of the Procuring Contracting Officer.

H61R GOVERNMENT FURNISHED PROPERTY (GFP)

- (a) The Government shall furnish to the Contractor for use in connection with this contract, Government property as follows (if requested to do so by the contractor (because of the system design); for the purposes of verifying system performance at AUTEC):
 - (1) Government Furnished Equipment (GFE): 7 AN/DPN/78 Vega Model 306X Radar beacons

This property shall be made available, free of expense to the Contractor, at the following location: **AUTEC**, **Andros Island**, **Bahamas**.

(2) Government Furnished Information (GFI) as identified in the Statement of Work and specifications. Unless specified otherwise, GFI will be furnished within 30 days after contract award.

- (b) Only the identified items, in the quantity shown, will be furnished by the Government. All other material required for the performance of this contract shall be furnished by the Contractor, including backhoes, trucks, and any other equipment needed to install the radar system at AUTEC. GFP furnished under this contract is for use exclusively under this contract unless specified otherwise in writing by the Contracting Officer.
- (c) All Government Property furnished under this contract shall be returned to NUWCDIVNPT at the completion of the contract unless otherwise specified. The Contractor shall immediately advise the Contracting Officer, in writing, of any property lost, damaged, or transferred out of the Contractor's possession.

H71 CONTROL OF TECHNICAL DATA

- (a) The Contractor shall distribute data items according to the distribution shown on the CDRL, Exhibit A. The Contractor shall not distribute, release, or show data items or other technical data to third parties except with the written permission of the Contracting Officer.
- (b) All copies of CDRL items under this contract, regardless of distribution, shall be marked on the report cover with the following information:
 - (1) Naval Undersea Warfare Center Division, Newport
 - (2) Contract, Delivery Order, and ELIN Numbers
 - (3) Report Title
 - (4) Date of Report
 - (5) Contractor (division which generated the report)
- (c) Release of all technical data is subject to the following documents or appropriate superseding documents:
 - (1) OPNAV INSTRUCTION 5510.1H
 - (2) NUWCDIVNPT INSTRUCTION 5570.1E
 - (3) NUWCDIVNPT INSTRUCTION 5600.1A

H81R TRAVEL COSTS AND RESPONSIBILITIES

(a) Performance under this contract may require travel by contractor personnel. If travel, domestic or overseas, is required, the Contractor shall be responsible for making all needed arrangements for his personnel. This includes, but is not limited to, medical examinations; immunizations; passports, visas, etc. and security clearances. If any work will take place on a U.S. Navy vessel, the Contractor shall obtain boarding authorization for all contractor personnel from the Commanding Officer of the vessel. Authorization shall be obtained prior to boarding.

SECTION I CONTRACT CLAUSES

The following contract clauses are hereby incorporated by reference:

Number	<u>Title</u>	<u>Date</u>
252.201-7000	CONTRACTING OFFICER'S REPRESENTATIVE	(DEC 1991)
52.202-1	DEFINITIONS	(OCT 1995)
52.203-3	GRATUITIES	(APR 1984)
52.203-5	COVENANT AGAINST CONTINGENT FEES	(APR 1984)
52.203-6	RESTRICTIONS ON SUBCONTRACTOR SALES TO THE	(JUL 1995)
	GOVERNMENT	,
52.203-7	ANTI-KICKBACK PROCEDURES	(JUL 1995)
52.203-8	CANCELLATION, RESCISSION, AND RECOVERY OF FUNDS FOR	(JAN 1997)
	ILLEGAL OR IMPROPER ACTIVITY	
52.203-10	PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR	(JAN 1997)
	IMPROPER ACTIVITY	
52.203-12	LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN	(JUN 1997)
	FEDERAL TRANSACTIONS	
252.203-7001	PROHIBITION ON PERSONS CONVICTED OF FRAUD OR OTHER	(MAR 1999)
	DEFENSE-CONTRACT-RELATED FELONIES	
252.203-7002	DISPLAY OF DOD HOTLINE POSTER	(DEC 1991)
52.204-4	PRINTED OR COPIED DOUBLE-SIDED ON RECYCLED PAPER	(AUG 2000)
252.204-7000	DISCLOSURE OF INFORMATION	(DEC 1991)
252.204-7002	PAYMENT FOR SUBLINE ITEMS NOT SEPARATELY PRICED	(DEC 1991)
252.204-7003	CONTROL OF GOVERNMENT PERSONNEL WORK PRODUCT	(APR 1992)
252.204-7004	REQUIRED CENTRAL CONTRACTOR REGISTRATION	(MAR 2000)
252.205-7000	PROVISION OF INFORMATION TO COOPERATIVE	(DEC 1991)
	AGREEMENT HOLDERS	
52.209-6	PROTECTING THE GOVERNMENT'S INTEREST WHEN	(JUL 1995)
	SUBCONTRACTING WITH CONTRACTORS DEBARRED,	
	SUSPENDED, OR PROPOSED FOR DEBARMENT	
252.209-7000	ACQUISITION FROM SUBCONTRACTORS SUBJECT TO	(NOV 1995)
	ON-SITE INSPECTION UNDER THE INTERMEDIATE-	
252 200 5004	RANGE NUCLEAR FORCES (INF) TREATY	0.54B 4000
252.209-7004	SUBCONTRACTING WITH FIRMS THAT ARE OWNED OR	(MAR 1998)
	CONTROLLED BY THE GOVERNMENT OF A TERRORIST	
52 211 15	COUNTRY DEFENSE PRIORITY AND ALLOCATION REQUIREMENTS	(CED 1000)
52.211-15	DEFENSE PRIORITY AND ALLOCATION REQUIREMENTS	(SEP 1990)
52.215-2	AUDIT AND RECORDS - NEGOTIATION	(JUN 1999)
52.215-8	ORDER OF PRECEDENCE UNIFORM CONTRACT FORMAT	(OCT 1997)
52.215-14	INTEGRITY OF UNIT PRICES	(OCT 1997)
52.217-7	OPTION FOR INCREASED QUANTITY—SEPARATELY PRICED LINE ITEM	(MAR 1989)
	Fill-in: within as stated in clause B42.	
	Note: the last sentence is deleted.	
52.219-8	UTILIZATION OF SMALL BUSINESS CONCERNS (OCT 2000)	
52.219-9	SMALL BUSINESS SUBCONTRACTING PLAN	(OCT 2000)
52.219-9	LIQUIDATED DAMAGES – SUBCONTRACTING PLAN	(JAN 1999)
252.219-7003	SMALL, SMALL DISADVANTAGED AND WOMEN-OWNED	(APR 1999)
232.217-1003	SMALL BUSINESS SUBCONTRACTING PLAN (DOD CONTRACTS)	(AH K 1990)
252.219-7004	SMALL, SMALL DISADVANTAGED AND WOMEN-OWNED	(JUN 1997)
232.217-700 T	SMALL BUSINESS SUBCONTRACTING PLAN (TEST PROGRAM)	(5014 1771)
52.222-20	WALSH-HEALEY PUBLIC CONTRACTS ACT	(DEC 1996)
52.222-20	PROHIBITION OF SEGREGATED FACILITIES	(FEB 1999)
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	THORIDITION OF DEGREEOTIED INCIDITIED	(1 11 1///)

52.222-26	EQUAL OPPORTUNITY	(FEB 1999) (APR 1984)
52.222-29	NOTIFICATION OF VISA DENIAL	
52.222-35	AFFIRMATIVE ACTION FOR DISABLED VETERANS AND VETERANS OF THE VIETNAM ERA	(APR 1998)
52.222-36	AFFIRMATIVE ACTION FOR WORKERS WITH DISABILITIES	(JUN 1998)
52.222-37	EMPLOYMENT REPORTS ON DISABLED VETERANS AND	(JAN 1999)
	VETERANS OF THE VIETNAM ERA	
52.223-5	POLLUTION PREVENTION AND RIGHT-TO-KNOW	
	INFORMATION	(MAR 1997)
52.223-6	DRUG-FREE WORKPLACE	(JAN 1997)
52.223-14	TOXIC CHEMICAL RELEASE REPORTING	(OCT 2000)
252.223-7006	PROHIBITION ON STORAGE AND DISPOSAL OF TOXIC	
	AND HAZARDOUS MATERIALS	(APR 1993)
52.225-8	DUTY-FREE ENTRY	(FEB 2000)
52.225-13	RESTRICTIONS ON CERTAIN FOREIGN PURCHASES	(JUL 2000)
252.225-7005	IDENTIFICATION OF EXPENDITURES IN THE UNITED STATES	(DEC 1991)
252.225-7008	SUPPLIES TO BE ACCORDED DUTY-FREE ENTRY	(MAR 1998)
252.225-7009	DUTY-FREE ENTRY - QUALIFYING COUNTRY SUPPLIES	(AUG 2000)
	(END PRODUCTS AND COMPONENTS)	
252.225-7010	DUTY-FREE ENTRY - ADDITIONAL PROVISIONS	(AUG 2000)
252.225-7012	PREFERENCE FOR CERTAIN DOMESTIC COMMODITIES	(AUG 2000)
252.225-7026	REPORTING OF CONTRACT PERFORMANCE OUTSIDE THE	(JUN 2000)
	UNITED STATES	
252.225-7031	SECONDARY ARAB BOYCOTT OF ISRAEL	(JUN 1992)
52.226-1	UTILIZATION OF INDIAN ORGANIZATIONS AND	(JUN 2000)
	INDIAN-OWNED ECONOMIC ENTERPRISES	(************
52.227-1	AUTHORIZATION AND CONSENT	(JUL 1995)
52.227-2	NOTICE AND ASSISTANCE REGARDING PATENT AND	(AUG 1996)
52 227 0	COPYRIGHT INFRINGEMENT	(A.DD 1004)
52.227-9	REFUND OF ROYALTIES	(APR 1984)
252.227-7013	RIGHTS IN TECHNICAL DATA NONCOMMERCIAL ITEMS	(NOV 1995)
252.227-7015	TECHNICAL DATA COMMERCIAL ITEMS RIGHTS IN BID OR PROPOSAL INFORMATION	(NOV 1995)
252.227-7016	LIMITATIONS ON THE USE OR DISCLOSURE OF	(JUN 1995)
252.227-7025	GOVERNMENT-FURNISHED INFORMATION MARKED	(JUN 1995)
	WITH RESTRICTIVE LEGENDS	
252.227-7030	TECHNICAL DATA - WITHHOLDING OF PAYMENT	(MAR 2000)
252.227-7036	DECLARATION OF TECHNICAL DATA CONFORMITY	(MAK 2000) (JAN 1997)
252.227-7037	VALIDATION OF RESTRICTIVE MARKINGS ON TECHNICAL	(SEP 1999)
232.221-1031	DATA	(SEI 1999)
52.229-3	FEDERAL, STATE, AND LOCAL TAXES	(JAN 1991)
52.229-5	TAXES - CONTRACTS PERFORMED IN U.S. POSSESSIONS	(APR 1984)
32.22) 3	OR PUERTO RICO	(11111)
52.229-6	TAXES - FOREIGN FIXED-PRICE CONTRACTS	(JAN 1991)
52.230-2	COST ACCOUNTING STANDARDS	(APR 1998)
52.230-6	ADMINISTRATION OF COST ACCOUNTING STANDARDS	(NOV 1999)
52.232-1	PAYMENTS	(APR 1984)
52.232-8	DISCOUNTS FOR PROMPT PAYMENT	(MAY 1997)
52.232-9	LIMITATION ON WITHHOLDING OF PAYMENTS	(APR 1984)
52.232-11	EXTRAS	(APR 1984)
52.232-16	PROGRESS PAYMENTS	(MAR 2000)
52.232-16	PROGRESS PAYMENTS - ALT I (MAR 2000)	(MAR 2000)
52.232-17	INTEREST	(JUN 1996)
52.232-18	AVAILABILITY OF FUNDS	(APR 1984)
52.232-23	ASSIGNMENT OF CLAIMS - ALT I (APR 1984)	(JAN 1986)

52.232-25	PROMPT PAYMENT	(JUN 1997)
52.232-33	PAYMENT BY ELECTRONIC FUNDS TRANSFER – CENTRAL	(MAY 1999)
	CONTRACTOR REGISTRATION	,
52.233-1	DISPUTES	(DEC 1998)
52.233-3	PROTEST AFTER AWARD	(AUG 1996)
52.237-2	PROTECTION OF GOVERNMENT BUILDINGS, EQUIPMENT,	,
	AND VEGETATION	(APR 1984)
52.242-12	REPORT OF SHIPMENT (REPSHIP)	(JUL 1995)
52.242-13	BANKRUPTCY	(JUL 1995)
252.242-7000	POSTAWARD CONFERENCE	(DEC 1991)
52.242-7004	MATERIAL MANAGEMENT AND ACCOUNTING SYSTEM	(SEP 1996)
52.243-1	CHANGES - FIXED PRICE	(AUG 1987)
52.243-6	CHANGE ORDER ACCOUNTING	(APR 1984)
52.243-7	NOTIFICATION OF CHANGES	(APR 1984)
	para.(b) fill-in: within thirty (30) calendar days	
	para.(d) fill-in: within thirty (30) calendar days	
252.243-7001	PRICING OF CONTRACT MODIFICATIONS	(DEC 1991)
252.243-7002	REQUESTS FOR EQUITABLE ADJUSTMENT	(MAR 1998)
52.244-6	SUBCONTRACTS FOR COMMERCIAL ITEMS AND	(APR 1998)
	COMMERCIAL COMPONENTS	
252.244-7000	SUBCONTRACTS FOR COMMERCIAL ITEMS AND COMMERCIAL	(MAR 2000)
	COMPONENTS	
52.245-1	PROPERTY RECORDS	(APR 1984)
52.245-2	GOVERNMENT PROPERTY (FIXED-PRICE CONTRACTS)	(DEC 1989)
252.245-7001	REPORTS OF GOVERNMENT PROPERTY	(MAY 1994)
52.246-24	LIMITATION OF LIABILITY - HIGH VALUE ITEMS	(FEB 1997)
52.246-25	LIMITATION OF LIABILITY- SERVICES	(FEB 1997)
52.247-63	PREFERENCE FOR U.SFLAG AIR CARRIERS	(JAN 1997)
252.247-7023	TRANSPORTATION OF SUPPLIES BY SEA	(MAR 2000)
252.247-7024	NOTIFICATION OF TRANSPORTATION OF SUPPLIES BY SEA	(MAR 2000)
52.248-1	VALUE ENGINEERING	(FEB 2000)
52.249-2	TERMINATION FOR CONVENIENCE OF THE GOVERNMENT	(SEP 1996)
	(FIXED-PRICE)	
52.249-8	DEFAULT (FIXED-PRICE SUPPLY AND SERVICE)	(APR 1984)
52.253-1	COMPUTER GENERATED FORMS	(JAN 1991)

132-900 SUBMISSION OF INVOICES (FIXED PRICE) (NAPS 5252.232-9000) (JUL 1992)-

- (a) "Invoice" as used in this clause does not include contractor's requests for progress payments.
- (b) The contractor shall submit original invoices with copies to the address identified in the solicitation/contract award form (SF26 Block 10; SF33 Block 23; SF1447 Block 14), unless delivery orders are applicable, in which case invoices will be segregated by individual order and submitted to the address specified in the order (DD1155 Block 13 or SF26 Block 10).
- (c) The use of copies of the Material Inspection and Receiving Report (MIRR), DD Form 250, as an invoice is encouraged. DFARS Appendix F-306 provides instructions for such use. Copies of the MIRR used as an invoice are in addition to the standard distribution stated in DFARS F-401.
- (d) In addition to the requirements of the Prompt Payment clause of this contract, the contractor shall cite on each invoice the contract line item number (CLIN); the contract subline item number (SLIN), if applicable; the accounting classification reference number (ACRN) as identified on the financial accounting data sheets, and the payment terms.
- (e) The contractor shall prepare:

- _ a separate invoice for each activity designated to receive the supplies or services.
- \underline{X} a consolidated invoice covering all shipments delivered under an individual order.
- either of the above.
- (f) If acceptance is at origin, the contractor shall submit the MIRR or other acceptance verification directly to the designated payment office. If acceptance is at destination, the consignee will forward acceptance verification to the designated payment office.

I45-9 USE AND CHARGES (FAR 52.245-9) (APR 1984) (DEVIATION)

(a) Definitions. As used in this clause - -

<u>Acquisition cost</u> means the acquisition cost recorded in the Contractor's property control system or, in the absence of such record, the value attributed by the Government to a government property item for purposes of determining a reasonable rental charge.

Government property means property owned or leased by the Government.

<u>Real property</u> means land and rights in land, ground improvements, utility distribution systems, and buildings and other structures. It does not include foundations and other work necessary for installing special tooling, special test equipment, or equipment.

Rental period means the calendar period during which government property is made available for commercial purposes.

<u>Rental time</u> means the number of hours, to the nearest whole hour, rented property is actually used for commercial purposes. It includes time to set up the property for such purposes, perform required maintenance, and restore the property to its condition prior to rental (less normal wear and tear).

(b) General.

- (1) Rental requests must be submitted to the administrative Contracting Officer, identify the property for which rental is requested, propose a rental period, and calculate an estimated rental charge by using the Contractor's best estimate of rental time in the formulae described in paragraph (c) of this clause.
- (2) The Contractor shall not use government property for commercial purposes, including Independent Research and Development, until a rental charge for real property, or estimated rental charge for other property, is agreed upon. Rented property shall be used only on a noninterference basis.

(c) Rental charge.

(1) Real property and associated fixtures.

- (i) The Contractor shall obtain, at its expense, a property appraisal from an independent licensed, accredited, or certified appraiser that computes a monthly, daily, or hourly rental rate for comparable commercial property. The appraisal may be used to compute rentals under this clause throughout its effective period or, if an effective period is not stated in the appraisal, for 1 year following the date the appraisal was performed. The Contractor shall submit the appraisal to the administrative Contracting Officer at least 30 days prior to the date the property is needed for commercial use. Except as provided in paragraph (c)(1)(iii) of this clause, the administrative Contracting Officer shall use the appraisal rental rate to determine a reasonable rental charge.
- (ii) Rental charges shall be determined by multiplying the rental time by the appraisal rental rate expressed as a rate per hour. Monthly or daily appraisal rental rates shall be divided by 720 or 24, respectively, to determine an hourly rental rate.
- (iii) When the administrative Contracting Officer has reason to believe the appraisal rental rate is not reasonable, he or she shall promptly notify the Contractor and provide his or her rationale. The parties may agree on an alternate means for computing a reasonable rental charge.

(2) <u>Other government property</u>. The Contractor may elect to calculate the final rental charge using the appraisal method described in paragraph (c)(1) of this clause subject to the constraints therein or the following formula in which rental time shall be expressed in increments of not less than 1 hour with portions of hours rounded to the next higher hour - -

Rental charge = (Rental Time in hours) (.02 per month) (Acquisition Cost) 720 hours per month

(3) <u>Alternate methodology</u>. The Contractor may request consideration of an alternate basis for computing the rental charge if it considers the monthly rental rate or a time-based rental unreasonable or impractical.

(d) Rental payments.

- (1) Rent is due at the time and place specified by the Contracting Officer. If a time is not specified, the rental is due 60 days following completion of the rental period. The Contractor shall calculate the rental due, and furnish records or other supporting data in sufficient detail to permit the administrative Contracting Officer to verify the rental time and computation. Unless otherwise permitted by law, payment shall be made by check payable to the Treasurer of the United States and sent to the contract administration office identified in this contract or by electronic funds transfer to that office.
- (2) Interest will be charged if payment is not made by the specified payment date or, in the absence of a specified date, the 61st day following completion of the rental period. Interest will accrue at the "Renegotiation Board Interest Rate" (published in the <u>Federal Register</u> semiannually on or about January 1st and July 1st) for the period in which the rent is due.
- (3) The Government's acceptance of any rental payment under this clause, in whole or in part, shall not be construed as a waiver or relinquishment of any rights it may have against the contractor stemming from the Contractor's unauthorized use of government property or any other failure to perform this contract according to its terms.
- (e) <u>Use revocation</u>. At any time during the rental period, the Government may revoke commercial use authorization and require the Contractor, at the Contractor's expense, to return the property to the Government, restore the property to its pre-rental condition (less normal wear and tear), or both.
- (f) <u>Unauthorized use</u>. The unauthorized use of government property can subject a person to fines, imprisonment, or both, under 18 U.S.C. 641.

I52-2 CLAUSES INCORPORATED BY REFERENCE (FAR 52.252-2) (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

http://www.arnet.gov/far/

SECTION J LIST OF ATTACHMENTS

J10 LIST OF ATTACHMENTS

<u>EXHIBIT</u>	<u>TITLE</u>	<u>PAGES</u>
"A"	DD Form 1423, Contract Data Requirements List (including Addendum A)	8
<u>FIGURES</u>		
1	Notational Block Diagram AUTEC*	1
2	Radar I&M Performance Characteristics**	1
<u>ATTACHMENT</u>		
1	Statement of Work	7
2	Functional Performance Specification, In-Air Tracking System (Core requirement plus Option 1)	7
3	Functional Performance Specification, In-Air Surveillance Subsystem (Options 2 and 3)	5
4	Logistics Considerations for AUTEC, Andros Island Bahamas	3
5	Preliminary Interface Requirements Specification, with:	8
	Appendix I- Site Detail	7***
	Appendix II- AUTEC RF Environment Information	7
	Appendix III- AUTEC Microwave Interface Information	1
6	List of Government Beacon Assets	20
7	Contract Administration Master Plan	2
8	Comments in the Interest of Competition	1

^{*} cited in Attachments #2, #3, and #5.

NOTE: In an effort to help potential offerors see the differences between the initial solicitation that was released in DEC 2000 and this revised solicitation, changes to Attachments #1, 2, 3, and 5 are shown in bold italics. Offerors are put on notice, however, that some changes may have been missed and that deletions are not marked.

^{**} cited in Attachment #2.

^{***} excluding Site drawings.

<u>Date</u>

SECTION K REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF OFFERORS OR RESPONDENTS

The following solicitation provisions are hereby incorporated by reference:

(c) Provide the above data for each subcontractor over \$100,000.

<u>Title</u>

Number

	52.203-11		DISCLOSURE REGARDING PAYMENTS AIN FEDERAL TRANSACTIONS	(APR 1991)
	252.209-7003	COMPLIANCE WITH Y	VETERANS' EMPLOYMENT REPORTING	(MAR 1998)
	252.225-7017	REQUIREMENTS PROHIBITION ON AW PEOPLE'S REPUBLIC	ARD TO COMPANIES OWNED BY THE OF CHINA	(FEB 2000)
K16	PRE-AW	ARD SYSTEMS APPRO	VAL DATA	
	Offerors shall provi		ring activity etc.) as follows: Explain any disapp	roval, or approval
	(1) Accounting S	System (All contracts other	than Firm Fixed Price)	
	Submitted	Approved	By	
	Limitations			
	(2) Cost Accoun	nting Standards Disclosure	Statement (Large Businesses Only)	
	Submitted	Approved	By	
	Latest Revision	of CASB		
	Submitted	Approved	By	
	Potential Non-C	Compliances (As notified by	y ACO)	
	(3) Purchasing S	System (See FAR 44.302)		
	Submitted	Approved	By	
	(4) Forward Pric	cing Rate Agreement (If Ap	pplicable)	
	Submitted	Approved	By	
	(5) Facilities Cle	earance (Security) (If Requ	ired by DD Form 254)	
	Submitted	Approved	By	
	bers for points of		cognizant Activities (offices) and provide names ntract Audit Agency and the Administrative Con-	
	ACO			
	DCAA			

K03-2 CERTIFICATE OF INDEPENDENT PRICE DETERMINATION (FAR 52,203-2) (APR 1985)

- (a) The offeror certifies that-
 - (1) The prices in this offer have been arrived at independently, without, for the purpose of restricting competition, any consultation, communication, or agreement with any other offeror or competitor relating to (i) those prices, (ii) the intention to submit an offer, or (iii) the methods or factors used to calculate the prices offered;
 - (2) The prices in the offer have not been and will not be knowingly disclosed by the offeror, directly or indirectly, to any other offeror or competitor before bid opening (in the case of a sealed bid solicitation) or contract award (in the case of a negotiated solicitation) unless otherwise required by law; and
 - (3) No attempt has been made or will be made by the offeror to induce any other concern to submit or not to submit an offer for the purpose of restricting competition.
- (b) Each signature on the offer is considered to be a certification by the signatory that the signatory-
 - (1) Is the person in the offeror's organization responsible for determining the prices being offered in this bid or proposal, and that the signatory has not participated and will not participate in any action contrary to subparagraphs (a)(1) through (a)(3) above; or

(2) (i) Has been authorized, in writing, to act as agent for the following principals in certifying that those
principals have not participated, and will not participate in any action contrary to subparagraphs (a)(1) through
(a)(3) above

[insert full name of person(s) in the offeror's organization responsible for determining the prices offered in this bid or proposal, and the title of his or her position in the offeror's organization];

- (ii) As an authorized agent, does certify that the principals named in subdivision (b)(2)(i) above have not participated, and will not participate, in any action contrary to subparagraphs (a)(1) through (a)(3) above; and
- (iii) As an agent, has not personally participated, and will not participate, in any action contrary to subparagraphs (a)(1) through (a)(3) above.
- (c) If the offeror deletes or modifies subparagraph (a)(2) above, the offeror must furnish with its offer a signed statement setting forth in detail the circumstances of this disclosure.

K04-3 TAXPAYER IDENTIFICATION (FAR 52.204-3) (OCT 1998)

(a) Definitions.

"Common parent," as used in this provision, means that corporate entity that owns or controls an affiliated group of corporations that files its Federal income tax returns on a consolidated basis, and of which the offeror is a member.

"Taxpayer Identification Number (TIN)," as used in this provision, means the number required by the Internal Revenue Service (IRS) to be used by the offeror in reporting income tax and other returns. The TIN may be either a Social Security Number or an Employer Identification Number.

(b) All offerors must submit the information required in paragraphs (d) through (f) of this provision to comply with debt collection requirements of 31 U.S.C. 7701(c) and 3325(d), reporting requirements of 26 U.S.C. 6041, 6041A, and 6050M, and implementing regulations issued by the IRS. If the resulting contract is subject to the payment reporting requirements described in Federal Acquisition Regulation (FAR) 4.904, the failure or refusal by the offeror to furnish the information may result in a 31 percent reduction of payments otherwise due under the contract.

verify the accuracy of the offeror's TIN. (d) Taxpayer Identification Number (TIN). TIN has been applied for. TIN is not required because: Offeror is a nonresident alien, foreign corporation, or foreign partnership that does not have income effectively connected with the conduct of a trade or business in the United States and does not have an office or place of business or a fiscal paying agent in the United States; Offeror is an agency or instrumentality of a foreign government; Offeror is an agency or instrumentality of the Federal Government; (e) Type of organization. Sole proprietorship; Partnership; Corporate entity (not tax-exempt); Corporate entity (tax-exempt); Government entity (Federal, State, or local); Foreign government; International organization per 26 CFR 1.6049-4; (f) Common Parent. Offeror is not owned or controlled by a common parent as defined in paragraph (a) of this provision. Name and TIN of common parent: TIN: _____

(c) The TIN may be used by the Government to collect and report on any delinquent amounts arising out of the offeror's relationship with the Government (31 U.S.C. 7701(c)(3)). If the resulting contract is subject to the payment reporting requirements described in FAR 4.904, the TIN provided hereunder may be matched with IRS records to

K04-5 WOMEN-OWNED BUSINESS (OTHER THAN SMALL BUSINESS) (FAR 52.204-5) (MAY 1999)

(a) *Definition*. "Women-owned business concern," as used in this provision, means a concern that is at least 51 percent owned by one or more women; or in the case of any publicly owned business, at least 51 percent of its stock

is owned by one or more women; and whose management and daily business operations are controlled by one or more women. (b) Representation. [Complete only if the offeror is a women-owned business concern and has not represented itself as a small business concern in paragraph (b)(1) of FAR 52.219-1, Small Business Program Representations, of this *solicitation.*] The offeror represents that it ____ is, ____ is not a women-owned business concern. K09-5 CERTIFICATION REGARDING DEBARMENT, SUSPENSION, PROPOSED DEBARMENT, AND OTHER RESPONSIBILITY MATTERS (FAR 52.209-5) (MAR 1996) (a)(1) The Offeror certifies, to the best of it knowledge and belief, that--(i) The Offeror and/or any of its Principals--(A) Are , are not , presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency; (B) Have , have not , within a three-year period preceding this offer, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, state, or local) contract or subcontract; violation of Federal or state antitrust statutes relating to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, or receiving stolen property; and (C) Are , are not , presently indicted for, or otherwise criminally or civilly charged by a governmental entity with, commission of any of the offenses enumerated in subdivision (a)(1)(i)(B) of this provision. (ii) The Offeror has \square , has not \square , within a three-year period preceding this offer, had one or more contracts terminated for default by any Federal agency. (2) "Principals," for the purposes of this certification, means officers; directors; owners; partners; and, persons having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a subsidiary, division, or business segment, and similar positions). THIS CERTIFICATION CONCERNS A MATTER WITHIN THE JURISDICTION OF AN AGENCY OF THE UNITED STATES AND THE MAKING OF A FALSE, FICTITIOUS, OR FRAUDULENT CERTIFICATION MAY RENDER THE MAKER SUBJECT TO PROSECUTION UNDER SECTION 1001, TITLE 18, UNITED STATES CODE.

- (b) The Offeror shall provide immediate written notice to the Contracting Officer if, at any time prior to contract award, the Offeror learns that it's certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
- (c) A certification that any of the items in paragraph (a) of this provision exists will not necessarily result in withholding of an award under this solicitation. However, the certification will be considered in connection with a determination of the Offeror's responsibility. Failure of the Offeror to furnish a certification or provide such additional information as requested by Contracting Officer may render the Offeror nonresponsible.

- (d) Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by paragraph (a) of this provision. The knowledge and information of an Offeror is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- (e) The certification in paragraph (a) of this provision is a material representation of fact upon which reliance was placed when making award. If it is later determined that the Offeror knowingly rendered an erroneous certification, in addition to other remedies available to the Government, the Contracting Officer may terminate the contract resulting from this solicitation for default.

K09-001 DISCLOSURE OF OWNERSHIP OR CONTROL BY THE GOVERNMENT OF A TERRORIST COUNTRY (DFARS 252.209-7001) (MAR 1998)

- (a) Definitions. As used in this provision--
 - (1) "Government of a terrorist country" includes the state and the government of a terrorist country, as well as any political subdivision, agency, or instrumentality thereof.
 - (2) "Terrorist country" means a country determined by the Secretary of State, under section 6(j)(1)(A) of the Export Administration Act of 1979 (50 U.S.C. App. 2405(j)(i)(A)), to be a country the government of which has repeatedly provided support for acts of international terrorism. As of the date of this provision, terrorist countries include: Cuba, Iran, Iraq, Libya, North Korea, Sudan, and Syria.
 - (3) "Significant interest" means--
 - (i) Ownership of or beneficial interest in 5 percent or more of the firm's or subsidiary's securities. Beneficial interest includes holding 5 percent or more of any class of the firm's securities in "nominee shares", "street names", or some other method of holding securities that does not disclose the beneficial owner:
 - (ii) Holding a management position in the firm such as director or officer;
 - (iii) Ability to control or influence the election, appointment, or tenure of directors or officers in the firm;
 - (iv) Ownership of 10 percent or more of the assets of a firm such as equipment, buildings, real estate, or other tangible assets of the firm; or
 - (v) Holding 50 percent or more of the indebtedness of a firm.
- (b) <u>Prohibition on award</u>. In accordance with 10 U.S.C. 2327, no contract may be awarded to a firm or a subsidiary of a firm if the government of a terrorist country has a significant interest in the firm or subsidiary or, in the case of a subsidiary, the firm that owns the subsidiary, unless a waiver is granted by the Secretary of Defense.
- (c) <u>Disclosure</u>. If the government of a terrorist country has a significant interest in the Offeror or a subsidiary of the Offeror, the Offeror shall disclose such interest in an attachment to its offer. If the Offeror is a subsidiary, it shall also disclose any significant interest the government of a terrorist country has in any firm that owns or controls the subsidiary. The disclosure shall include-
 - (1) Identification of each government holding a significant interest; and
 - (2) A description of the significant interest held by each Government.

K11-005 SUBSTITUTIONS FOR MILITARY OR FEDERAL SPECIFICATIONS AND STANDARDS (DFARS 252.211-7005) (AUG 2000)

(a) Definition. "SPI process," as used in this clause, means a management or manufacturing process that has been accepted previously by the Department of Defense under the Single Process Initiative (SPI) for use in lieu of a specific military or Federal specification or standard at specific facilities. Under SPI, these processes are reviewed

and accepted by a Management Council, which includes representatives of the Contractor, the Defense Contract Management Agency, the Defense Contract Audit Agency, and the military departments.

- (b) Offerors are encouraged to propose SPI processes in lieu of military or Federal specifications and standards cited in the solicitation. A listing of SPI processes accepted at specific facilities is available via the Internet in PDF format at http://www.dcmc.hq.dla.mil/dcmc_o/oc/spi/files/dbreport/files/modified.pdf and in Excel format at http://www.dcmc.hq.dla.mil/dcmc_o/oc/spi/files/dbreport/files/modified.xls.
- (c) An offeror proposing to use an SPI process in lieu of military or Federal specifications or standards cited in the solicitation shall -
- (1) Identify the specific military or Federal specification or standard for which the SPI process has been accepted;
- (2) Identify each facility at which the offeror proposes to use the specific SPI process in lieu of military or Federal specifications or standards cited in the solicitation;
 - (3) Identify the contract line items, subline items, components, or elements affected by the SPI process; and
- (4) If the proposed SPI process has been accepted at the facility at which it is proposed for use, but is not yet listed at the Internet site specified in paragraph (b) of this clause, submit documentation of Department of Defense acceptance of the SPI process.
- (d) Absent a determination that an SPI process is not acceptable for this procurement, the Contractor shall use the following SPI processes in lieu of military or Federal specifications or standards:

(Offeror insert information for each SPI process)

SPI Process:

Facility:

Military or Federal
Specification or Standard:

Affected Contract Line Item Number,
Subline Item Number, Component,
or Element:

- (e) If a prospective offeror wishes to obtain, prior to the time specified for receipt of offers, verification that an SPI process is an acceptable replacement for military or Federal specifications or standards required by the solicitation, the prospective offeror -
- (1) May submit the information required by paragraph (d) of this clause to the Contracting Officer prior to submission of an offer; but
- (2) Must submit the information to the Contracting Officer at least 10 working days prior to the date specified for receipt of offers.

K15-6	PLACE OF PERFORMANCE (FAR 52.215-6) (OCT 1997)
does no	offeror or respondent, in the performance of any contract resulting from this solicitation, intends, intends [check applicable box] to use one or more plants or facilities at a different address from the address from the respondent as indicated in this proposal or response to request for information.
	e offeror or respondent checks "intends" in paragraph (a) of this provision, it shall insert in the following he required information:
(S	Name and Address of Owner and Operator of the Plant or Facility ounty, State, Zip Code) Name and Address of Owner and Operator of the Plant or Facility if other than offeror or respondent
K19-1A	SMALL BUSINESS PROGRAM REPRESENTATIONS (FAR 52.219-1) (OCT 2000) – ALT I (OCT 2000)
(a) (1) 7 code	The North American Industry Classification System (NAICS) code for this acquisition is _ (insert NAICS e).
(2)	The small business size standard is _ (insert size standard).
cons	The small business size standard for a concern which submits an offer in its own name, other than on a struction or service contract, but which proposes to furnish a product which it did not itself manufacture, is employees.
(b) <u>Rep</u>	resentations.
(1)	The offeror represents as part of its offer that it is, is not a small business concern.
prov	Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this vision.) The offeror represents, for general statistical purposes, that it is, is not, a small dvantaged business concern as defined in 13 CFR 124.1002.
	Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this vision.) The offeror represents as part of its offer that it \square is, \square is not a women-owned small business term.
prov	Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this vision.) The offeror represents as part of its offer that it \square is, \square is not a veteran-owned small business term.
of th	Complete only if the offeror represented itself as a veteran-owned small business concern in paragraph (b)(4) his provision.) The offeror represents as part of its offer that it \Box is, \Box is not a service-disabled veteranded small business concern.

(Complete only if offere	or represented itself as a small business concern in paragraph (b)(1) of this provision.)
e offeror represents, as p	art of its offer, that –
	a HUBZone small business concern listed, on the date of this representation, on the
~	One Small Business Concerns maintained by the Small Business Administration, and wnership and control, principal office of ownership, or HUBZone employee
percentage has occurred	I since it was certified by the Small Business Administration in accordance with 13
CFR Part 126; and	
representation in paragr concerns that are partici	t a joint venture that complies with the requirements of 13 CFR Part 126, and the aph (b)(6)(i) of this provision is accurate for the HUBZone small business concern or pating in the joint venture. [The offeror shall enter the name or names of the ss concern or concerns that are participating in the joint venture:] Each HUBZone small business concern participating in the joint venture
shall submit a separate s	signed copy of the HUBZone representation.
1	
finitions As used in this	provision

- (c) <u>Definitions</u>. As used in this provision
 - "Service-disabled veteran-owned small business concern" -
 - (1) Means a small business concern -
 - (i) Not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more servicedisabled veterans; and
 - (ii) The management and daily business operations of which are controlled by one or more service-disabled vbeterans or, in the case of a veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.
 - (2) Service-disabled veteran means a veteran, as defined in 38 U.S.C. 101(2), with a disability that is serviceconnected, as defined in 38 U.S.C. 101(16).
 - "Small business concern," as used in this provision, means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR Part 121 and the size standard in paragraph (a) of this provision.
 - "Veteran-owned small business concern" means a small business concern -
 - (1) Not less than 51 percent of which is owned by one or more veterans (as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans; and
 - (2) the management and daily business operations of which are controlled by one or more veterans.
 - "Women-owned small business concern," as used in this provision, means a small business concern-
 - (1) Which is at least 51 percent owned by one or more women or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; and
 - (2) Whose management and daily business operations are controlled by one or more women.

(d) Notice.

- (1) If this solicitation is for supplies and has been set aside, in whole or in part, for small business concerns, then the clause in this solicitation providing notice of the set-aside contains restrictions on the source of the end items to be furnished.
- (2) Under 15 U.S.C. 645(d), any person who misrepresents a firm's status as a small, HUBZone small, small disadvantaged or women-owned small business concern in order to obtain a contract to be awarded under the preference programs established pursuant to sections 8(a), 8(d), 9, or 15 of the Small Business Act or any other provision of Federal law that specifically references section 8(d) for a definition of program eligibility, shall --
 - (i) Be punished by imposition of fine, imprisonment, or both;
 - (ii) Be subject to administrative remedies, including suspension and debarment; and
 - (iii) Be ineligible for participation in programs conducted under the authority of the Act.

K19-21 SMALL BUSINESS SIZE REPRESENTATION FOR TARGETED INDUSTRY CATEGORIES UNDER THE SMALL BUSINESS COMPETITIVENESS DEMONSTRATION PROGRAM (FAR 52.219-21) (MAY 1999)

(Complete only if the Offeror has represented itself under the provision at 52.219-1 to be a small business concern under the size standards of this solicitation.)

Offeror's number of employees for the past 12 months (check this column if size standard stated in solicitation is expressed in terms of number of employees) or Offeror's average annual gross revenue for the last 3 fiscal years (check this column if size standard stated in solicitation is expressed in terms of annual receipts). (Check one of the following.)

Number of Employees	Average Annual Gross Revenues
50 or fewer	\$1 million or less
51 - 100	\$1,000,001 - \$2 million
101 - 250	\$2,000,001 - \$3.5 million
251 - 500	\$3,500,001 - \$5 million
501 - 750	\$5,000,001 - \$10 million
751 - 1,000	\$10,000,001 - \$17 million
Over 1,000	Over \$17 million

K19-22 SMALL DISADVANTAGED BUSINESS STATUS (FAR 52,219-22) (OCT 1999)

(a) General. This provision is used to assess an offeror's small disadvantaged business status for the purpose of obtaining a benefit on this solicitation. Status as a small business and status as a small disadvantaged business for general statistical purposes is covered by the provision at FAR 52.219-1, Small Business Program Representation.

(b) Representations.

(1) General.	. The offeror represents, as part of its offer, that it is a small business under the size standa	.rd
applicable to	o this acquisition; and either –	

(i) It has received certification by the Small Business Administration as a small disadvantaged business
oncern consistent with 13 CFR 124. Subpart B: and

(A) No material change in disadvantaged ownership and control has occurred since its certification;

(B) Where the concern is owned by one or more disadvantaged individuals, the net worth of each individual upon whom the certification is based does not exceed \$750,000 after taking into account the applicable exclusions set forth at 13 CFR 124.104(c)(2); and
(C) It is identified, on the date of its representation, as a certified small disadvantaged business concern in the database maintained by the Small Business Administration (PRO-Net); or
(ii) It has submitted a completed application to the Small Business Administration or a Private Certifier to be certified as a small disadvantaged business concern in accordance with 134 CFR 124, Subpart B, and a decision on that application is pending, and that no material change in disadvantaged ownership and control has occurred since its application was submitted.
(2) For Joint Ventures. The offeror represents, as part of its offer, that it is a joint venture that complies with the requirements at 13 CFR 124.1002(f) and that the representation in paragraph (b)(1) of this provision is accurate for the small disadvantaged business concern that is participating in the joint venture. [The offeror shall enter the name of the small disadvantaged business concern that is participating in the joint venture:
]
(c) Penalties and Remedies. Anyone who misrepresents any aspects of the disadvantaged status of a concern for the purposes of securing a contract or subcontract shall -
(1) Be punished by imposition of a fine, imprisonment, or both;
(2) Be subject to administrative remedies, including suspension and debarment; and
(3) Be ineligible for participation in programs conducted under the authority of the Small Business Act.
K22-22 PREVIOUS CONTRACTS AND COMPLIANCE REPORTS (FAR 52.222-22) (FEB 1999)
The offeror represents that-
(a) It has, has not participated in a previous contract or subcontract subject to the Equal Opportunity clause of this solicitation;
(b) It has, has not, filed all required compliance reports, and
(c) Representations indicating submission of required compliance reports, signed by proposed subcontractors, will be obtained before subcontract awards.
K22-25 AFFIRMATIVE ACTION COMPLIANCE (FAR 52.222-25) (APR 1984)
The offeror represents that -
(a) It has developed and has on file, has not developed and does not have on file, at each establishment, affirmative action programs required by the rules and regulations of the Secretary of Labor (41 CFR 60-1 and 60-2), or
(b) It \square has not previously had contracts subject to the written affirmative action programs requirement of the rules and regulations of the Secretary of Labor.

K23-13 CERTIFICATION OF TOXIC CHEMICAL RELEASE REPORTING (FAR 52.223-13) (OCT 2000)

(a) Submission of this certification is a prerequisite for making or entering into this contract imposed by Executive Order 12969, August 8, 1995.
(b) By signing this offer, the offeror certifies that
(1) As the owner or operator of facilities that will be used in the performance of this contract that are subject to the filing and reporting requirements described in section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) (42 U.S.C. 11023) and section 6607 of the Pollution Prevention Act of 1990 (PPA) (42 U.S.C. 13106), the offeror will file and continue to file for such facilities for the life of the contract the Toxic Chemical Release Inventory Form (Form R) as described in sections 313(a) and (g) of EPCRA and section 6607 of PPA; or
(2) None of its owned or operated facilities to be used in the performance of this contract is subject to the Form R filing and reporting requirements because each such facility is exempt for at least one of the following reasons: (Check each block that is applicable.)-
(i) The facility does not manufacture, process, or otherwise use any toxic chemicals listed under section 313(c) of EPCRA, 42 U.S.C. 11023(c);-
(ii) The facility does not have 10 or more full-time employees as specified in section 313(b)(1)(A) of EPCRA, 42 U.S.C. 11023(b)(1)(A);-
(iii) The facility does not meet the reporting thresholds of toxic chemicals established under section 313(f) of EPCRA, 42 U.S.C. 11023(f) (including the alternate thresholds at 40 CFR 372.27, provided an appropriate certification form has been filed with EPA);
(iv) The facility does not fall within Standard Industrial Classification Code (SIC) major groups 20 through 39 or their corresponding North American Industry Classification System (NAICS) sectors 31 through 33; or
(v) The facility is not located within any State of the United States, the District of Columbia, the Commonwealth of Puerto Rico, Guam, American Samoa, the United States Virgin Islands, the Northern Mariana Islands, or any other territory or possession over which the United States has jurisdiction.
K25-003 INFORMATION FOR DUTY-FREE ENTRY EVALUATION (DFARS 252.225-7003) (MAR 1998)
(a) Does the offeror propose to furnish
(1) A domestic end product with nonqulllllalifying country components for which the offeror requests duty-free entry; or
(2) A foreign end product consisting of end items, components, or material of foreign origin other than those for which duty-free entry is to be accorded pursuant to the DEuty-Free Entry Qualifying Country Supplies (End Products and Components) clause or, if applicable, the Duty-Free Entry Eligible End Products clause of this solicitation?
Yes No No

(b) If the answer in paragraph (a) is yes, answer the following questions:
(1) Are such foreign supplies now in the United States?
Yes No No
(2) Has the duty on such foreign supplies been paid?
Yes No No
(3) If the answer to paragraph (b)(2) is no, what amount is included in the offer to cover such duty?
<u>\$</u>
(c) If the duty has not been paid, the Government may elect to make award on a duty-free basis. If so, the offered price will be reduced in the contract award by the amount specified in paragraph (b)(3). The Offeror agrees to identify, at the request of the Contracting Officer, the foreign supplies which are subject to duty-free entry.
K27-6 ROYALTY INFORMATION (FAR 52.227-6) (APR 1984)
(a) <u>Cost or charges for royalties</u> . When the response to this solicitation contains costs or charges for royalties totaling more than \$250, the following information shall be included in the response relating to each separate item of royalty or license fee:
(1) Name and address of licensor.
(2) Date of license agreement.
(3) Patent numbers, patent application serial numbers, or other basis on which the royalty is payable.
(4) Brief description, including any part or model numbers of each contract item or component on which the royalty is payable.
(5) Percentage or dollar rate of royalty per unit.
(6) Unit price of contract item.
(7) Number of units.
(8) Total dollar amount of royalties.
(b) Copies of current licenses. In addition, if specifically requested by the Contracting Officer before execution of the contract, the offeror shall furnish a copy of the current license agreement and an identification of applicable

K27-017 IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE RESTRICTIONS (DFARS 252.227-7017) (JUN 1995)

(a) The terms used in this provision are defined in following clause or clauses contained in this solicitation-

claims of specific patents.

- (1) If a successful offeror will be required to deliver technical data, the Rights in Technical Data--Noncommercial Items clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause.
- (2) If a successful offeror will not be required to deliver technical data, the Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause.

- (b) The identification and assertion requirements in this provision apply only to technical data, including computer software documents, or computer software to be delivered with other than unlimited rights. For contracts to be awarded under the Small Business Innovative Research Program, the notification requirements do not apply to technical data or computer software that will be generated under the resulting contract. Notification and identification is not required for restrictions based solely on copyright.
- (c) Offers submitted in response to this solicitation shall identify, to the extent known at the time an offer is submitted to the Government, the technical data or computer software that the Offeror, its subcontractors or suppliers, or potential subcontractors or suppliers, assert should be furnished to the Government with restrictions on use, release, or disclosure.
- (d) The Offeror's assertions, including the assertions of its subcontractors or suppliers or potential subcontractors or suppliers shall be submitted as an attachment to its offer in the following format, dated and signed by an official authorized to contractually obligate the Offeror:

Identification and Assertion of Restrictions on the Government's Use, Release, or Disclosure of Technical Data or Computer Software.

The Offeror asserts for itself, or the persons identified below, that the Government's rights to use, release, or disclose the following technical data or computer software should be restricted:

Technical Data or Computer Software to be Furnished With Restrictions *	Basis for Assertion **	Asserted Rights Category ***	Name of Persor Asserting Restrictions ****
(LIST)****	(LIST)	(LIST)	(LIST)

- * For technical data (other than computer software documentation) pertaining to items, components, or processes developed at private expense, identify both the deliverable technical data and each such items, component, or process. For computer software or computer software documentation identify the software or documentation.
- ** Generally, development at private expense, either exclusively or partially, is the only basis for asserting restrictions. For technical data, other than computer software documentation, development refers to development of the item, component, or process to which the data pertain. The Government's rights in computer software documentation generally may not be restricted. For computer software, development refers to the software. Indicate whether development was accomplished exclusively or partially at private expense. If development was not accomplished at private expense, or for computer software documentation, enter the specific basis for asserting restrictions.
- *** Enter asserted rights category (e.g., government purpose license rights from a prior contract, rights in SBIR data generated under another contract, limited, restricted, or government purpose rights under this or a prior contract, or specially negotiated licenses).

****	Corporation.	individual.	or other person.	as appropriate.

****	Enter "none"	when all data	or software	e will be su	bmitted	without	restrictions
------	--------------	---------------	-------------	--------------	---------	---------	--------------

Date		
Printed Name and Title		

(End of identification and assertion)
(e) An offeror's failure to submit, complete, or sign the notification and identification required by paragraph (d) of this provision with its offer may render the offer ineligible for award.
(f) If the Offeror is awarded a contract, the assertions identified in paragraph (d) of this provision shall be listed in an attachment to that contract. Upon request by the Contracting Officer, the Offeror shall provide sufficient information to enable the Contracting Officer to evaluate any listed assertion.
K30-1 COST ACCOUNTING STANDARDS NOTICES AND CERTIFICATION (FAR 52.230-1) (JUN 2000)
Note: This notice does not apply to small businesses or foreign governments. This notice is in three parts, identified by Roman numerals I through III.
Offerors shall examine each part and provide the requested information in order to determine Cost Accounting Standards (CAS) requirements applicable to any resultant contract.
If the offeror is an educational institution, Part II does not apply unless the contemplated contract will be subject to full or modified CAS coverage pursuant to 48 CFR 9903.201-2(c)(5) or 9903.201-2(c)(6), respectively.
I. DISCLOSURE STATEMENT - COST ACCOUNTING PRACTICES AND CERTIFICATION
(a) Any contract in excess of \$500,000 resulting from this solicitation will be subject to the requirements of the Cost Accounting Standards Board (48 CFR Chapter 99), except for those contracts which are exempt as specified in 48 CFR 9903.201-1.
(b) Any offeror submitting a proposal which, if accepted, will result in a contract subject to the requirements of 48 CFR Chapter 99 must, as a condition of contracting, submit a Disclosure Statement as required by 48 CFR 9903.202. When required, the Disclosure Statement must be submitted as a part of the offeror's proposal under this solicitation unless the offeror has already submitted a Disclosure Statement disclosing the practices used in connection with the pricing of this proposal. If an applicable Disclosure Statement has already been submitted, the offeror may satisfy the requirement for submission by providing the information requested in paragraph (c) Part I of this provision.
<u>CAUTION</u> : In the absence of specific regulations or agreement, a practice disclosed in a Disclosure Statement shall not, by virtue of such disclosure, be deemed to be a proper, approved, or agreed-to practice for pricing proposals or accumulating and reporting contract performance cost data.
(c) Check the appropriate box below:
(1) Certificate of Concurrent Submission of Disclosure Statement.
The offeror hereby certifies that, as a part of the offer, copies of the Disclosure Statement have been submitted as follows:
(i) original and one copy to the cognizant Administrative Contracting Officer (ACO) or cognizant Federal agency official authorized to act in that capacity (Federal official), as applicable, and

(ii) one copy to the cognizant Federal auditor.

	(Disclosure must be on Form Number CASB-DS-1 or CASB DS-2, as applicable. Forms may be obtained from the cognizant ACO or Federal official and/or from the loose-leaf version of the Federal Acquisition Regulation.)
	Date of Disclosure Statement:
	Name and Address of Cognizant ACO or Federal Official where filed:
	offeror further certifies that the practices used in estimating costs in pricing this proposal are consistent the cost accounting practices disclosed in the Disclosure Statement.
	(2) Certificate of Previously Submitted Disclosure Statement.
	The offeror hereby certifies that the required Disclosure Statement was filed as follows:
	Date of Disclosure Statement:
	Name and Address of Cognizant ACO or Federal Official where filed:
	The offeror further certifies that the practices used in estimating costs in pricing this proposal are consistent with the cost accounting practices disclosed in the applicable disclosure statement.
	(3) Certificate of Monetary Exemption.
	The offeror hereby certifies that the offeror, together with all divisions, subsidiaries, and affiliates under common control, did not receive net awards of negotiated prime contracts and subcontracts subject to CAS totaling \$50 million or more in the cost accounting period immediately preceding the period in which this proposal was submitted. The offeror further certifies that if such status changes before an award resulting from this proposal, the offeror will advise the Contracting Officer immediately.
	(4) Certificate of Interim Exemption.
	The offeror hereby certifies that (i) the offeror first exceeded the monetary exemption for disclosure, as defined in (3) of this subsection, in the cost accounting period immediately preceding the period in which this offer was submitted and (ii) in accordance with 48 CFR 9903.202-1, the offeror is not yet required to submit a Disclosure Statement. The offeror further certifies that if an award resulting from this proposal has not been made within 90 days after the end of that period, the offeror will immediately submit a revised certificate to the Contracting Officer, in the form specified under subparagraphs (c)(1) or (c)(2) of Part I of this provision, as appropriate, to verify submission of a completed Disclosure Statement.
	<u>CAUTION</u> : Offerors currently required to disclose because they were awarded a CAS-covered prime contract or subcontract of \$50 million or more in the current cost accounting period may not claim this exemption (4). Further, the exemption applies only in connection with proposals submitted before expiration of the 90-day period following the cost accounting period in which the monetary exemption was exceeded.
OST	ACCOUNTING STANDARDS-ELIGIBILITY FOR MODIFIED CONTRACT COVERAGE
cate by	ror is eligible to use the modified provisions of 48 CFR 9903.201-2(b) and elects to do so, the offeror shall y checking the box below. Checking the box below shall mean that the resultant contract is subject to the e and Consistency of Cost Accounting Practices clause in lieu of the Cost Accounting Standards clause.
R 9903 ountin	offeror hereby claims an exemption from the Cost Accounting Standards clause under the provisions of 48 3.201-2(b) and certifies that the offeror is eligible for use of the Disclosure and Consistency of Cost ag Practices clause because during the cost accounting period immediately preceding the period in which sal was submitted, the offeror received less than \$50 million in awards of CAS-covered prime contracts not not contracts.

CAUTION: An offeror may not claim the above eligibility for modified contract coverage if this proposal is expected to result in the award of a CAS-covered contract of \$50 million or more or if, during its current cost accounting period, the offeror has been awarded a single CAS-covered prime contract or subcontract of \$50 million or more.

III. ADDITIONAL COST ACCOUNTING STANDARDS APPLICABLE TO EXISTING CONTRACTS

The offeror shall indicate below whether award of the contemplated contract would, in accordance with
subparagraph (a)(3) of the Cost Accounting Standards clause, require a change in established cost accounting
practices affecting existing contracts and subcontracts.

YES		NO
-----	--	----

K47-022 REPRESENTATION OF EXTENT OF TRANSPORTATION BY SEA (DFARS 252.247-7022) (AUG 1992)

- (a) The Offeror shall indicate by checking the appropriate blank in paragraph (b) of this provision whether transportation of supplies by sea is anticipated under the resultant contract. The term "supplies" is defined in the Transportation of Supplies by Sea clause of this solicitation.
- (b) Representation. The Offeror represents that it--

	Does anticipate that supplies will be transported by sea in the performance of any contract or subcontrac
resi	ulting from this solicitation.
	Door not enticipate that symplics will be transported by see in the performance of any contract or

Does not anticipate that supplies will be transported by sea in the performance of any contract or subcontract resulting from this solicitation.

(c) Any contract resulting from this solicitation will include the Transportation of Supplies by Sea clause. If the Offeror represents that it will not use ocean transportation, the resulting contract will also include the Defense FAR Supplement clause at 252.247-7024, Notification of Transportation of Supplies by Sea.

SECTION L INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS OR QUOTERS

The following solicitation provisions are hereby incorporated by reference:

<u>Number</u>	<u>Title</u>	<u>Date</u>
52.204-6	DATA UNIVERSAL NUMBERING SYSTEM (DUNS)	(JUN 1999)
252.204-7001	COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE	(AUG 1999)
	REPORTING	
52.211-14	NOTICE OF PRIORITY RATING FOR NATIONAL DEFENSE USE	(SEP 1990)
	check one: DX or <u>X</u> DO rated order	
52.214-35	SUBMISSION OF OFFERS IN U. S. CURRENCY	(APR 1991)
52.222-24	PREAWARD ON-SITE EQUAL OPPORTUNITY COMPLIANCE	(FEB 1999)
	EVALUATION	
252.227-7028	TECHNICAL DATA OR COMPUTER SOFTWARE PREVIOUSLY	(JUN 1995)
	DELIVERED TO THE GOVERNMENT	,
52.232-13	NOTICE OF PROGRESS PAYMENTS	(APR 1984)
		` '

L2 OTHER INSTRUCTIONS TO OFFERORS (NOV 1999)

- (a) It is the offeror's responsibility to ensure delivery of the proposal to the Bid Depository by the time and date specified on the solicitation form. FAR Provision 52.215-1 provides regulatory guidance concerning the timeliness of bids or proposals. Offerors should read this provision before determining which method of transmittal is appropriate.
- (b) Clearly indicate the solicitation number and the closing time and date on the outside of the package containing the offer.
- (c) Offerors are cautioned that certain prior approval procedures (e.g., visitor's pass, badging, etc.) must be followed to gain access to the Naval Station Newport. These procedures may cause time delays and are considered part of the responsibility of the offeror.

L3 PRE-AWARD POINT OF CONTACT

(a) The Contract Negotiator for this contract is:

Name: Nancy A. Teasdale

Address: Commercial Acquisition Dept., Building 11

Naval Undersea Warfare Center Division, Newport

Code 591

Simonpietri Drive

Newport, RI 02841-1708

Telephone: (401) 832-1898; fax (401) 832-4820

L4 FACSIMILE PROPOSALS AND BIDS NOT AUTHORIZED

Facsimile proposals (bids) are not authorized for this acquisition. "Facsimile proposal (bid)," as used in this solicitation, means a proposal (bid), modification of a proposal (bid), or withdrawal of a proposal (bid) that is transmitted to and received by the Government via electronic equipment that communicates and reproduces both printed and handwritten material.

L5 CLAUSES AND PROVISIONS WHICH REQUIRE OFFEROR COMPLETION (MAR 2000)

The following sections <u>may</u> contain the indicated form, clauses, provisions, and attachments which, if included in a solicitation, require offeror completion. Offerors should review the solicitation carefully and insert relevant data wherever required.

Section A - Forms

SF1447 (Solicitation/Contract). Blocks 11, 13, 15, 21, 22, 27 and the back of the form.

Section B - Supplies/Services and Prices

All Supplies/Services and Prices (only) clauses

Section F - Deliveries or Performance

Place-of-Delivery clauses F10 through F17 (only) and F40

Section G - Contract Administration Data Clauses G12, G14, and G15

Section H - Special Contract Requirements

Clause H51

Section I - Contract Clauses

Clauses I09-1, I16-2, I16-3, I16-001, I22-48, I23-3, and I23-001

Section K - Representations, Certifications, and Other Statements of Offeror

All required certifications and representations

Section L - Instructions, Conditions, and Notices to Offerors

Clauses L10R, L43, and L14-21A

Section M - Evaluation Factors for Award

Clauses M47-51, M47-51A, M47-51B, and M47-51C

Section J - Attachments

No. 8

L7 NOTICE TO SUBMIT A SUBCONTRACTING PLAN FOR SMALL BUSINESS AND SMALL DISADVANTAGED BUSINESS CONCERNS

- (a) The contractor shall, in accordance with the provisions of FAR 52.219-9, submit a subcontracting plan for small business and small disadvantaged business concerns to the PCO with an informational copy provided to the ACO.
- (b) For offers pursuant to a solicitation, the subcontracting plan shall be submitted as part of the Cost Proposal.
- (c) For Letter contracts, the subcontracting plan shall be submitted by the date on which the contractor submits a priced proposal for definitization.

L9 AVAILABILITY OF REQUIRED FORMS AND PUBLICATIONS

- (a) Offerors will need a variety of required Government forms and publications in submitting offers and performing the contract. These are available as specified below; payment may be necessary.
 - (1) Forms listed in FAR Section 53 (Standard Forms and Optional Forms) are available per FAR 53.107(b) from the Superintendent of Documents, GPO, Washington, DC 20402. This is the best source of all Federal, non-DoD publications and documents.
 - (2) Forms listed in DFARS Section 53 (DD Forms) are available from the same activity as specifications (See Section L, FAR 52.211-2). This is the best source of DoD publications and documents.
 - (3) Forms may also be available through the offeror's cognizant Administrative Contracting Officer.
 - (4) In addition to Government sources, items may be available from public libraries and commercial sources.
- (b) All NUWC Division, Newport specific forms are attached; see Section J.

L10R REQUEST FOR PROGRESS PAYMENTS

Bidder/Offerors shall indicate their need for Progress Payments by checking the block below:

L12 DRAWINGS AND SPECIFICATIONS MAY BE RETAINED

The drawing(s) and/or specifications listed in Section J and accompanying this bid or proposal may be retained by the bidder or offeror for future reference.

L16R SUBMISSION OF COST OR PRICING DATA (AUG 2000)

- (a) It is expected that this contract will be awarded based upon a determination that there is adequate price competition; therefore, the offeror is not required to submit certified cost or pricing data with its proposal.
- (b) If, prior to contract award, the Contracting Officer determines that adequate price competition does not exist in accordance with FAR 15.403-1(c)(1), the offeror shall provide certified cost or pricing data as requested by the Contracting Officer. The offeror shall provide the requested data within thirty (30) calendar days from the date of the Contracting Officer's request. The contractor shall also submit a Certificate of Current Cost or Pricing Data, as prescribed by FAR 15.406-2.

L30 SUBMISSION OF PROPOSALS - GENERAL REQUIREMENTS

- (a) Submit proposals to the address indicated in block 7 of the SF1447.
- (b) Requirements For Proposal Format.
 - (1) <u>Purpose</u>. This section specifies the format which offerors shall use in their proposals to perform the requirements specified in this Request For Proposal (RFP). The intent is not to restrict the offerors in the manner in which they will perform their work but rather to ensure a certain degree of uniformity in the format of the responses for evaluation purposes.
 - (2) Partition. Offerors are required to submit their proposals in two separate parts as follows:
 - Volume I Technical Proposal Include all data and information required for evaluation, and exclude any reference to the pricing aspects of the offer, as noted in the provision entitled "Technical Proposal" in this Section.

Volume II - Cost/Price Proposal - Include the completed solicitation documents and other information as noted in the provision entitled "Cost Proposal" in this Section.

<u>Important Note</u>: Offerors must respond to all requirements of the solicitation document. **Offerors are cautioned not to alter, disassemble, or punch holes in the solicitation document** except for removal of attached forms required to be completed and included in the proposal. Offerors shall not include CLASSIFIED material in the volumes.

(3) General Format and Markings.

(i) The text of the proposal shall be formatted on 8 1/2 by 11 inch paper with printing on one side only. Pages shall be consecutively numbered. Type size on all except foldout pages shall be 10 point "Times" font or equivalent character size, uncompressed and unreduced. Foldout pages up to size 11 x 17 inches may be used for diagrams, charts or graphic material with type size(s) left to the discretion of the offeror. The text on all other pages will be single spaced with minimum margins as follows:

Left Hand: 1 inch Right Hand: 1 inch Top: 1 inch Bottom: 1 inch

- (ii) The table of contents shall provide sufficient detail so the important elements can be easily located. The use of tabs and dividers is encouraged. The proposal Title Page will include all information required in (iii) below plus identification of copies bearing original authorizing signatures.
- (iii) The proposal volumes, **excluding the solicitation document**, shall be in standard three-ring loose-leaf binders which can be easily opened and closed. The proposal binders shall be marked as follows:
 - Title of proposal
 - Proposal Category (Technical or Cost)
 - Volume number
 - Security classification
 - RFP number
 - Name and address of the offeror
 - Serial number/copy number
- (iv) Data submitted directly to the Government by subcontractors in support of the prime offeror's cost proposal shall follow the above format. In addition it shall prominently identify the prime offeror.

(4) Page Limits and Copies.

IDENTIFICATION	MAXIMUM NO. OF PAGES	COPIES REQUIRED
Volume I Technical	80 (not including: the Past Performance Attachment, if any)	6
Volume II Cost/completed RFP	No Limit	3

(c) Requirements For Style.

- (1) Each offeror shall submit a proposal that clearly and concisely describes and defines the contractor's response to the requirements contained in the RFP. Use of general or vague statements such as "standard procedures will be used" or "good engineering practices" will not satisfy this requirement. Unnecessary elaboration or other presentations beyond that sufficient to present a complete and effective proposal are not desired and may be construed as an indication of the offeror's lack of understanding or cost consciousness. Elaborate art work, expensive paper or bindings, and expensive visual or other presentation aids are neither necessary nor desired.
- (2) The offeror shall not repeat information required in the responses in two or more proposal data requirements. Such information shall be presented in detail in the one area of the proposal where it contributes most critically to the discussion of the data requirement. In other areas where discussion of the same information is necessary, the offeror shall refer to the initial discussion and identify its location within his proposal.
- (3) The proposal shall contain all the pertinent information in sufficient detail to permit evaluation of the proposal. This shall include cross-referencing for traceability.

L34 TECHNICAL PROPOSAL - COMPLEX ITEM (NOV 1999)

CONTENT - TECHNICAL PROPOSAL (VOLUME I)

(a) <u>Organization</u>. The technical proposal shall include information and documentation in sufficient detail to clearly identify the offer's overall merit, divided in the following sections, in the order listed.

Technical Approach

Past Performance

Management Approach

- (b) Technical Approach.
- (1) System Design. Offerors shall provide a design for a system and/or subsystems that meet the requirements of the attached performance specifications, while maximizing the use of Non-developmental items (NDI), components, subsystems. Include Level 1 drawings of the system and/or subsystems showing essential features, citing specifics. Provide appropriate supporting material, i.e. product specifications for major NDI components or subsystems, to substantiate performance. Offerors shall demonstrate by engineering analysis that the design will meet the requirements of the specifications.
- (2) Implementation Approach. Offerors shall describe its approach to implementing the requirements, such as obtaining materials and components, integrating the system, and testing it prior to installation. Demonstrate that proposed subcontracts are consistent with the overall technical proposal. Offerors shall describe installation preparations, including coordination with the government for new construction and site approvals; transportation details; system and/or subsystem installations at AUTEC, Andros Island, Bahamas; and, final system and/or subsystems level performance verification.
- (3) <u>Supportability</u> Offerors shall describe how their system and/or subsystems are designed to minimize life cycle operations and support costs while meeting or exceeding the supportability requirements. They shall describe their plans for furnishing training, training materials, and discuss the adequacy of the documentation that will be furnished for operations and support of the system and/or subsystems.
- (c) <u>Past Performance</u>. In a separate attachment, provide information relative to past performance.
 - (1) Provide a list of all (maximum of 10) contracts and subcontracts with a value exceeding \$100,000 that are currently in process or have been completed during the past two years. If the maximum is exceeded, list the 10 most current actions. Contracts listed shall include those entered into with Federal, state or local governments as well as commercial customers. Offerors that are newly formed entities without prior contracts should list contracts and subcontracts as required above for all key personnel. Include the following information for each contract and subcontract:
 - Name of contracting activity or commercial firm
 - Date of contract award
 - Contract number
 - Contract type
 - Total contract value
 - Brief narrative (less than 10 lines) describing your involvement in the effort, complexity, objectives achieved, and types of personnel who performed under the contract. List ships or military systems involved, if any. List major subcontractors.
 - Procuring Contracting Officer* and telephone
 - Administrative Contracting Officer*, if different, and telephone
 - Program manager* or COR or and telephone
 - *Or non-Government official with similar duties or rank
 - (2) Describe any quality awards or certifications that indicate the offeror possesses a high-quality process for developing and producing the product or service required. Such awards or certifications include, for example, the Malcolm Baldrige Quality Award, the automobile industry's QS 9000, Sematech's SSQA, or ANSI/EIA-599, or ISO 9000. Identify the segment of the company (one division or the entire company) that received the award or certification and when it was received. If the award or certification is over three years old, present evidence that the qualifications still apply.

(3) Provide similar past performance data for major subcontractors (those performing more than 25% of the effort).

(d) Management Approach.

- (1) Show the organizational structure and demonstrate how the firm will assure performance. Include identification of the Senior Technical Representative (STR) designated to manage tasks. Address the STR's authority, ability to independently commit company resources to perform under the contract, and the STR's line of communication to senior company management. Describe the STR's previous experience managing similar efforts.
- (2) Provide a Work Breakdown Structure (WBS) per MIL-STD-881 providing detail down to the Cost Account or Task Plan level. (A Cost Account or Task Plan consists of individual Work Packages managed by a single individual.).
- (3) Provide GANTT charts showing beginning and completion of WBS elements. GANTT charts should also show any critical schedule events such as testing and "milestones".
- (4) Describe the methods used for configuration control and data management
- (5) Describe the quality assurance methods proposed, including a subcontract management plan and a discussion of testing procedures. Note that this effects only the contractor's internal testing, and does not limit the Government's rights to further test under the "Inspections" clause. Indicate if your firm is ISO 9000 certified, or has such a certification pending.
- (6) Demonstrate that facilities and equipment are adequate for performance.

L11-2 AVAILABILITY OF SPECIFICATIONS LISTED IN THE DOD INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) AND DESCRIPTIONS LISTED IN THE ACQUISITION MANAGEMENT SYSTEMS AND DATA REQUIREMENTS CONTROL LIST, DOD 5010.12-L (FAR 52.211-2) (DEC 1999)

Copies of specifications, standards, and data item descriptions cited in this solicitation may be obtained--

- (a) From the ASSIST database via the Internet at http://assist.daps.mil; or
- (b) By submitting a request to the--

Department of Defense Single Stock Point (DoDSSP) Building 4, Section D 700 Robbins Avenue Philadelphia, PA 19111-5094

Telephone (215) 697-2667/2179 Facsimile (215) 697-1462

L11-900 NOTICE TO OFFERORS -- USE OF OZONE DEPLETING SUBSTANCES (NAPS 5252,211-9000) (AUG 1993)

(a) In accordance with section 326 of Pub L. 102-484, the Department of Defense is prohibited from awarding any contract which includes a DoD-directed specification or standard that requires the use of a Class I ozone depleting substance (ODS) or that can be met only through the use of such a substance unless such use has been approved by a senior acquisition official (SAO). The SAO approval is based on a technical certification that no suitable substitute for the ODS is currently available.

(b) To comply with this statute, the Navy has screened the specifications and standards associated with this solicitation. To the extent that ODS requirements were revealed by this review they are identified below:

Class I ODS Identified

Specification/Standard

(c) If offerors possess knowledge about any other Class I ODS required directly or indirectly by the specification or standards, the Navy would appreciate such information in your response to this solicitation. Offerors are under no obligation to comply with this request and no compensation can be provided for doing so.

L15-1 INSTRUCTIONS TO OFFERORS--COMPETITIVE ACQUISITION (FAR 52.215-1) (FEB 2000)

- (a) Definitions. As used in this provision--
- "Discussions" are negotiations that occur after establishment of the competitive range that may, at the Contracting Officer's discretion, result in the offeror being allowed to revise its proposal.
- "In writing" or "written" means any worded or numbered expression which can be read, reproduced, and later communicated, and includes electronically transmitted and stored information.
- "Proposal modification" is a change made to a proposal before the solicitation's closing date and time, or made in response to an amendment, or made to correct a mistake at any time before award.
- "Proposal revision" is a change to a proposal made after the solicitation closing date, at the request of or as allowed by a Contracting Officer as the result of negotiations.
- "Time," if stated as a number of days, is calculated using calendar days, unless otherwise specified, and will include Saturdays, Sundays, and legal holidays. However, if the last day falls on a Saturday, Sunday, or legal holiday, then the period shall include the next working day.
- (b) *Amendments to solicitations*. If this solicitation is amended, all terms and conditions that are not amended remain unchanged. Offerors shall acknowledge receipt of any amendment to this solicitation by the date and time specified in the amendment(s).
- (c) Submission, modification, revision, and withdrawal of proposals.
 - (1) Unless other methods (e.g., electronic commerce or facsimile) are permitted in the solicitation, proposals and modifications to proposals shall be submitted in paper media in sealed envelopes or packages (i) addressed to the office specified in the solicitation, and (ii) showing the time and date specified for receipt, the solicitation number, and the name and address of the offeror. Offerors using commercial carriers should ensure that the proposal is marked on the outermost wrapper with the information in paragraphs (c)(1)(i) and (c)(1)(ii) of this provision.
 - (2) The first page of the proposal must show--
 - (i) The solicitation number;
 - (ii) The name, address, and telephone and facsimile numbers of the offeror (and electronic address if available);
 - (iii) A statement specifying the extent of agreement with all terms, conditions, and provisions included in the solicitation and agreement to furnish any or all items upon which prices are offered at the price set opposite each item;
 - (iv) Names, titles, and telephone and facsimile numbers (and electronic addresses if available) of persons authorized to negotiate on the offeror's behalf with the Government in connection with this solicitation; and
 - (v) Name, title, and signature of person authorized to sign the proposal. Proposals signed by an agent shall be accompanied by evidence of that agent's authority, unless that evidence has been previously furnished to the issuing office.
 - (3) Submission, modification, revision, and withdrawal of proposals.
 - (i) Offerors are responsible for submitting proposals, and any modifications or revisions, so as to reach the Government office designated in the solicitation by the time specified in the solicitation. If no time is

specified in the solicitation, the time for receipt is 4:30 p.m., local time, for the designated Government office on the date that proposal or revision is due.

- (ii)(A) Any proposal, modification, or revision received at the Government office designated in the solicitation after the exact time specified for receipt of offers is "late" and will not be considered unless it is received before award is made, the Contracting Officer determines that accepting the late offer would not unduly delay the acquisition; and
 - (1) If it was transmitted through an electronic commerce method authorized by the solicitation, it was received at the initial point of entry to the Government infrastructure not later than 5:00 p.m. one working day prior to the date specified for receipt of proposals; or
 - (2) There is acceptable evidence to establish that it was received at the Government installation designated for receipt of offers and was under the Government's control prior to the time set for receipt of offers; or
 - (3) It is the only proposal received.
 - (B) However, a late modification of an otherwise successful proposal that makes its terms more favorable to the Government, will be considered at any time it is received and may be accepted.
- (iii) Acceptable evidence to establish the time of receipt at the Government installation includes the time/date stamp of that installation on the proposal wrapper, other documentary evidence of receipt maintained by the installation, or oral testimony or statements of Government personnel.
- (iv) If an emergency or unanticipated event interrupts normal Government processes so that proposals cannot be received at the office designated for receipt of proposals by the exact time specified in the solicitation, and urgent Government requirements preclude amendment of the solicitation, the time specified for receipt of proposals will be deemed to be extended to the same time of day specified in the solicitation on the first work day on which normal Government processes resume.
- (v) Proposals may be withdrawn by written notice received at any time before award. Oral proposals in response to oral solicitations may be withdrawn orally. If the solicitation authorizes facsimile proposals, proposals may be withdrawn via facsimile received at any time before award, subject to the conditions specified in the provision at 52.215-5, Facsimile Proposals. Proposals may be withdrawn in person by an offeror or an authorized representative, if the identity of the person requesting withdrawal is established and the person signs a receipt for the proposal before award.
- (4) Unless otherwise specified in the solicitation, the offeror may propose to provide any item or combination of items.
- (5) Offerors shall submit proposals in response to this solicitation in English, unless otherwise permitted by the solicitation, and in U.S. dollars, unless the provision at FAR 52.225-17, Evaluation of Foreign Currency Offers, is included in the solicitation.
- (6) Offerors may submit modifications to their proposals at any time before the solicitation closing date and time, and may submit modifications in response to an amendment, or to correct a mistake at any time before award.
- (7) Offerors may submit revised proposals only if requested or allowed by the Contracting Officer.
- (8) Proposals may be withdrawn at any time before award. Withdrawals are effective upon receipt of notice by the Contracting Officer.
- (d) Offer expiration date. Proposals in response to this solicitation will be valid for the number of days specified on the solicitation cover sheet (unless a different period is proposed by the offeror).
- (e) Restriction on disclosure and use of data. Offerors that include in their proposals data that they do not want disclosed to the public for any purpose, or used by the Government except for evaluation purposes, shall--
 - (1) Mark the title page with the following legend: This proposal includes data that shall not be disclosed outside the Government and shall not be duplicated, used, or disclosed--in whole or in part-- for any purpose other than to evaluate this proposal. If, however, a contract is awarded to this offeror as a result of--or in connection with-the submission of this data, the Government shall have the right to duplicate, use, or disclose the data to the extent provided in the resulting contract. This restriction does not limit the Government's right to use information contained in this data if it is obtained from another source without restriction. The data subject to this restriction are contained in sheets [insert numbers or other identification of sheets]; and

(2) Mark each sheet of data it wishes to restrict with the following legend: Use or disclosure of data contained on this sheet is subject to the restriction on the title page of this proposal.

(f) Contract award.

- (1) The Government intends to award a contract or contracts resulting from this solicitation to the responsible offeror(s) whose proposal(s) represents the best value after evaluation in accordance with the factors and subfactors in the solicitation.
- (2) The Government may reject any or all proposals if such action is in the Government's interest.
- (3) The Government may waive informalities and minor irregularities in proposals received.
- (4) The Government intends to evaluate proposals and award a contract without discussions with offerors (except clarifications as described in FAR 15.306(a)). Therefore, the offeror's initial proposal should contain the offeror's best terms from a cost or price and technical standpoint. The Government reserves the right to conduct discussions if the Contracting Officer later determines them to be necessary. If the Contracting Officer determines that the number of proposals that would otherwise be in the competitive range exceeds the number at which an efficient competition can be conducted, the Contracting Officer may limit the number of proposals in the competitive range to the greatest number that will permit an efficient competition among the most highly rated proposals.
- (5) The Government reserves the right to make an award on any item for a quantity less than the quantity offered, at the unit cost or prices offered, unless the offeror specifies otherwise in the proposal.
- (6) The Government reserves the right to make multiple awards if, after considering the additional administrative costs, it is in the Government's best interest to do so.
- (7) Exchanges with offerors after receipt of a proposal do not constitute a rejection or counteroffer by the Government.
- (8) The Government may determine that a proposal is unacceptable if the prices proposed are materially unbalanced between line items or subline items. Unbalanced pricing exists when, despite an acceptable total evaluated price, the price of one or more contract line items is significantly overstated or understated as indicated by the application of cost or price analysis techniques. A proposal may be rejected if the Contracting Officer determines that the lack of balance poses an unacceptable risk to the Government.
- (9) If a cost realism analysis is performed, cost realism may be considered by the source selection authority in evaluating performance or schedule risk.
- (10) A written award or acceptance of proposal mailed or otherwise furnished to the successful offeror within the time specified in the proposal shall result in a binding contract without further action by either party.
- (11) The Government may disclose the following information in postaward debriefings to other offerors:
 - (i) The overall evaluated cost or price and technical rating of the successful offeror;
 - (ii) The overall ranking of all offerors, when any ranking was developed by the agency during source selection:
 - (iii) A summary of the rationale for award; and
 - (iv) For acquisitions of commercial items, the make and model of the item to be delivered by the successful offeror.

L16-1 TYPE OF CONTRACT (FAR 52.216-1) (APR 1984)

The Government contemplates award of a <u>firm fixed price (FFP)</u> contract resulting from this solicitation.

L33-2 SERVICE OF PROTEST (FAR 52.233-2) (AUG 1996)

(a) Protests, as defined in section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the General Accounting Office (GAO), shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from any duly warranted Procuring Contracting Officer in NUWCDIVNPT Code 59.

(b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.

L52-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FAR 52.252-1) (FEB 1998)

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es):

http://www.arnet.gov/far/

SECTION M EVALUATION FACTORS FOR AWARD

The following solicitation provisions are hereby incorporated by reference:

<u>Number</u>	<u>Title</u>	<u>Date</u>
52.217-5	EVALUATION OF OPTIONS	(JUL 1990)

M10 SINGLE AWARD

Due to the interrelationship of supplies and/or services to be provided hereunder, the Government intends to make a single award. The Government reserves the right to make a single award to the offeror whose offer is considered to be in the best interest of the Government, price and other factors considered.

M35R EVALUATION FOR AWARD - BEST VALUE (MAR 1999)

(a) Award will be made to the responsible offeror whose proposal contains the combination of those criteria offering the best overall value to the Government. This will be determined by comparing the difference in value of technical (non-cost) features of proposals with the difference in the cost to the Government. Offers will be evaluated on each of the following factors:

Technical Approach, with subfactors of:

- System Design;
- Implementation Approach;
- Supportability

Past Performance

Management Approach

Price /Cost

(b) Technical Approach and Past Performance are equal in importance, and are both four and one-half times as important as Management Approach. The three subfactors (System Design; Implementation Approach; Supportability) under Technical Approach are of equal weight. When combined, Technical Approach, Past Performance, and Management Approach are significantly more important than Price/Cost. Although Price/Cost is less important than the other factors in combination, it is important and will be seriously considered.

NOTE: THE MAXIMUM FUNDING ANTICIPATED FOR THIS PROCUREMENT (INCLUDING OPTIONS) IS <u>\$5 MILLION</u>.

The degree of its importance will increase with the degree of equality of the proposals in relation to the other factors, or when it is so significantly high as to diminish the value of the technical superiority to the Government.

(c) <u>Technical Approach (including the three subfactors) and Management Approach</u> will be evaluated based on the information submitted in response to the provision in Section L entitled, Technical Proposal.

(d) Past Performance.

- (1) Past performance will be evaluated as an indicator of the offeror's expected future performance under this contract. The Government will perform a comparative assessment of the offeror's overall ability to satisfy its customers including (but not limited to) quality, schedule, cost control, and business relations. The contracting officer will consider all available information concerning the offeror's past performance whether contained in the proposal or not. This may include information furnished by points of contact not named in the proposal or information from other sources such as commercial rating services. The Government will determine what past performance is relevant, and will not consider irrelevant past performance information.
- (2) In the case of an offeror without a record of relevant past performance or for whom information on past performance is not available, the offeror will not be evaluated favorably or unfavorably on past performance.
- (e) <u>Price/Cost</u>. In evaluating offers, the Contracting Officer will perform a price review of the offeror's proposal. The purpose of the evaluation is to: (1) verify the offeror's understanding of the requirements; (2) assess the degree to which proposed prices reflect the approaches and/or risk that the offeror will provide the supplies or services for the offered prices; and, (3) assess the degree to which the prices included in the cost proposal accurately represents the work effort included in the technical proposal. After this analysis, the offeror's proposed prices will be adjusted for realism and this cost will be used in the award evaluation.

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OMB No. 0704-0188

(2 Data Items) Public reporting burden for this collection of information is estimated to average 220 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/Pr No. listed in Block E. C. CATEGORY A. CONTRACT LINE ITEM NO. B. EXHIBIT 0002 CONTRACTOR D. SYSTEM/ITEM E. CONTRACT/PR NO. N66604-0194-26Q1 1. DATA ITEM NO. 2. TITLE OF DATA ITEM 3. SUBTITLE 17. PRICE GROUP A001 Technical Report Engineering Plan 4. AUTHORITY (Data Acquisition Document No.) CONTRACT REFERENCE 6. REQUIRING OFFICE 18 ESTIMATED DI-MISC-80508 SOW 4.1.1 NUWCDIVNPT Code 706 TOTAL PRICE DISTRIBUTION 7. DD 250 REQ 9. DIST STATEMENT 10. FREQUENCY 12. DATE OF FIRST SUBMISSION REQUIRED b. COPIES See Block 16 LT See block 16 8. APP CODE 11. AS OF DATE 13. DATE OF SUBSEQUENT a. ADDRESSEE D Final Draft SUBMISSION See Block 16 Reg Repr N/A N/A See block 16 16. REMARKS Block 9: See attached Addendum A. Code 706 1 Blocks 10/12/13: The contractor shall furnish the 1 Code 7006 (AUTEC) Engineering Plan to the Government seven (7) days prior to Code 70T, R. Reid 1 the scheduled Implementation Review. The Government will review and comment within seven days after the scheduled Implementation Review. The final Technical Report to be submitted 30 days prior to contract completion. 3 15. TOTAL 1. DATA ITEM NO. 2. TITLE OF DATA ITEM 3. SUBTITLE 17. PRICE GROUP A002 Integrated Master Schedule Schedule 5. CONTRACT REFERENCE 6. REQUIRING OFFICE 4. AUTHORITY (Data Acquisition Document No.) 18 ESTIMATED DI-MISC-81183A See Block 16 SOW 4.1.1 NUWCDIVNPT Code 706 TOTAL PRICE DISTRIBUTION 7. DD 250 REQ 9. DIST STATEMENT 10. FREQUENCY 12. DATE OF FIRST SUBMISSION 14 REQUIRED MTHLY 14 DAC b COPIES LT 8. APP CODE 11. AS OF DATE 13. DATE OF SUBSEQUENT a. ADDRESSEE Final SUBMISSION See Block 16 30 DARP Reg Repr N/A 16. REMARKS Block 4: In 10.2 content delete from 2nd sentence "and is Code 706 1 vertically and horizontally traceable to the cost/schedule Code 7006 (AUTEC) 1 reporting instrument used to address variances (such as Code 70T, R. Reid 1 Cost Performance Report, Cost/Schedule Status Report.") Block 9: See attached Addendum A. Block 12: The Master Schedule is due 14 days after contract award award, to be provided with the contractor's progress report. 3

Bob Reid

G. PREPARED BY

APPROVED BY

H. DATE

3/13/01

15. TOTAL

J. FEIROUZ

DATE

3/23/2001

(2 Data Items)

Form Approved OMB No. 0704-0188

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Bob Reid

J. FEIROUZ

3/13/01

3/23/2001

DD FORM 1423 CONTRACT DATA REQUIREMENTS LIST

BLOCK 16 ADDENDUM

BLOCK 9: The following information is specifically included in amplification of the Block 9 Distribution Statement selected:

Distribution Statement paragraphs are in addition to <u>CLASSIFICATION</u> markings of the data.

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The following "EXPORT CONTROL WARNING NOTICE" must be used in conjunction with DISTRIBUTION STATEMENTS identified in all CDRL Items.

WARNING - This document contains technical data whose export is restricted by the Arms Export Control Act (Title 22, U.S.C. Sec. 2751 et seq.) or the Export Administration Act of 1979, as amended, Title 50, U.S.C., App. 2401 et seq. Violations of these export laws are subject to severe criminal penalties. Disseminate in accordance with provisions of Dod Directive 5230.25.

Statement of Work AUTEC

In-Air Tracking and Surveillance System

1.0 BACKGROUND

The Atlantic Undersea Test and Evaluation Center (AUTEC) is a Research, Development, Test and Evaluation (RDTE) undersea range located at Andros Island in the Bahamas. The range currently has in-air tracking *and surveillance* capabilities that require *replacement* in order to improve the overall reliability, maintainability and operability of this function.

2.0 SCOPE

This Statement of Work (SOW) identifies and describes the efforts necessary to deliver the required tracking and surveillance capabilities. The core requirement is to provide a tracking capability; however, options to implement an in-air surveillance capability are also covered by this procurement. Additional options include the delivery of critical spares for the system—or subsystems (if the functions are implemented as separate subsystems). This system shall be easily maintained and operated, and be capable of remote operations from one site. Life cycle cost shall be minimized.

3.0 APPLICABLE DOCUMENTS/GOVERNMENT FURNISHED INFORMATION (GFI)

DOCUMENT	DATE
AUTEC In-Air Tracking Functional Performance Specification	*
AUTEC In-Air Surveillance Functional Performance Specification	*
AUTEC In-Air Tracking and Surveillance System Preliminary Interface Requirements Specification	*
AUTEC Logistics Considerations	*
AUTEC Antenna Benchmark Locations	To Be Provided at Award
MIL-HDBK-419A- Grounding, Bonding, and Shielding for Electronic Equipments and Facilities (2 volumes)	29 December 1987

^{*} provided as attachments to this solicitation.

4.0 REQUIREMENTS

The contractor shall design, fabricate, assemble, factory test, install, and site test the system(s) that meet the requirements of this SOW and the specifications.

4.1 Plan and design system

The contractor shall design and document a system that provides an in-air tracking capability (core requirement) in accordance with the *AUTEC In-Air Tracking Functional Performance Specification*, and if options are exercised, an in-air surveillance capability in accordance with the *AUTEC In-Air Surveillance Functional Performance Specification*, and the *AUTEC In-Air Tracking and Surveillance System Preliminary Interface Requirements Specification*— hereafter respectively, tracking specification, surveillance specification, and interface specification. The contractor shall plan and schedule the engineering effort to implement the proposed system design. In order to assure proper system operation, the contractor shall determine the following:

- a. The optimum siting of equipment at the locations given in the specification and taking into account electromagnetic compatibility as well as performance.
 - b. The extent and kind of any new construction required to support the installation.
- c. Predicted performance of the system in accordance with the specification given that (a) and (b) are satisfied.

In addition to site selection and design performance verification, the engineering plan (CDRL A001) shall incorporate:

- a preliminary revised interface specification;
- risk assessment and mitigation;
- environmental assessment;
- quality management;
- minimizing operations and *maintenance* costs;
- a maintenance concept;
- a critical spares list for the tracking subsystem—if the tracking function is implemented as a separate subsystem;
- a critical spares list for the surveillance subsystem—if implemented separately;
- installation planning;
- training plans, and
- factory and site verification plans.

4.1.1 Deliverables

The contractor shall deliver an engineering plan in accordance with CDRL A001, an integrated master schedule in accordance with CDRL A002, and design documentation in accordance with CDRL A003.

4.2 Deliver an in-air tracking capability

The contractor shall deliver a system that provides an in-air tracking capability in accordance with the tracking specification, paragraphs 3.1 through 3.7. This system is the core requirement of the contract.

4.2.1 Implement a tracking capability

The contractor shall fabricate, assemble, and integrate a system that provides an in-air tracking capability in accordance with the system design and the in-air tracking specification (paras. 3.1 through 3.7). The system shall provide this capability by integrating to the maximum extent possible non-developmental items (NDI). Emphasis shall be placed on maintainability.

2

4.2.2 Verify capability at the factory

The contractor shall conduct factory verification tests for the System's tracking function in accordance with the government-approved factory verification procedures. The tests results shall demonstrate that the system is ready for shipment to AUTEC and for installation at the appropriate sites.

4.2.2.1 Deliverables

The contractor shall document the factory test plan in accordance with CDRL A004. The contractor shall document the factory test results verifying system installation readiness in accordance with CDRL A005.

4.2.3 Ship and install system

The contractor shall ship and install the system(s) at the AUTEC site(s) in the location(s) identified in the specification and in accordance with the system design. The contractor shall develop and prepare the installation planning documents for the system prior to installation for the government to complete the required environmental/facility reviews. In general, the government will require approximately 60 days after receipt of the final plan for Government-approval processing. The contractor shall not ship the system until final government installation approvals are received. (Information for transporting material and billeting personnel is described in Attachment #4).

4.2.3.1 Deliverable

The contractor shall deliver installation planning documentation in accordance with CDRL A006.

4.2.4 Site preparation

The contractor is responsible for all Andros Island site preparation and construction that may be part of the contractor's system design. These efforts include—but are not limited to—installing pads or pylons for the tower(s), erecting the tower(s), trenching coral (on land only), installing cables, and back-filling. Site preparations shall not commence until final government installation approvals are received.

4.2.5 Antenna alignment

The contractor shall perform antenna alignment using existing AUTEC bore sight benchmarks (provided as GFI)

4.2.6 Verify system performance on-site

The contractor shall demonstrate and document that the system's in-air tracking capability is operationally ready with verification tests successfully completed in accordance with the contractor's verification test plans and procedures. Since the system will not be integrated into the range control system, the contractor shall provide an alternative means to verify and validate the system requirements. Any products which enable the system verification and validation process—an enabling product—shall be included with the delivery of the system. Within *thirty* (30) days after the contractor successfully completes system performance verification, the Government reserves the right to conduct an operational acceptance test to validate system operational readiness.

4.2.6.1 Deliverables

The contractor shall prepare site verification test procedures in accordance with CDRL A007 and demonstrate that the test results verify the operational readiness of the system's in-air tracking capability in accordance with CDRL A008.

4.2.7 Prepare a final report and provide system documentation

The contractor shall submit a final report which summarizes the overall development and installation effort for the delivered system. The report shall include as an attachment a revised version of the Interface Specification. The contractor shall also deliver data lists and manuals including the following information: complete parts list, operations manual, maintenance manual, preventative maintenance procedures, *functional and unit level schematics for all systems*, and general descriptions of computer software flow and function. *Schematics shall be submitted in .pdf format in addition to hard copy*.

4.2.7.1 Deliverables

The contractor shall deliver a final report in accordance with CDRL A009 and data lists and manuals in accordance with CDRL A010 for operations and maintenance of the system or deliverable.

4.2.8 Provide training

The contractor shall prepare and submit track system training materials for approval. Training shall be provided for a total of six skilled Government and the AUTEC Maintenance and Operations (M&O) contractor personnel with an understanding of system functions, performance, interface and integration, theory of operations, preventative and corrective maintenance.

4.2.8.1 Deliverable

The contractor shall furnish training materials in accordance with CDRL A011 for use in the contractor's training course.

4.2.9 Host progress reviews

In order for the Government to fully assess product and contract status, the contractor shall host three reviews at the contractor's facility for no more than five Government representatives.

4.2.9.1 Host an initial implementation review

Within 45 days after contract award, the contractor shall host a review to present the engineering plans and walk through the detailed design. The detailed design walk-through shall address the conformance of the design to performance requirements including final factory and site verification plans.

4.2.9.2 Host an interim progress review

The contractor shall host an interim progress review that shall be scheduled approximately midway between the start of system development and the projected completion of system installation and test. In addition to a review of program status and a discussion of the remaining program milestones, the contractor shall review the tracking system factory verification test procedures.

4.2.9.3 Host a pre-installation review

The contractor shall host a review to present the results of the tracking *factory verification tests* prior to shipping them to the installation sites. The review shall be conducted only if the products conform to their specified requirements and are ready for delivery and installation. The

contractor shall also discuss the site verification procedures. Pre-installation reviews are not required for optional procurements; however, the contractor shall verify that critical spares conform to their product specifications, prior to their shipment to AUTEC (*if option for spare parts is exercised*).

4.3 <u>OPTION 1</u>: Critical spares for the Core, In-Air Tracking System

4.3.1 Acquire critical spares

If the Government exercises this option, the contractor shall purchase and deliver to AUTEC the critical spares for the system meeting the definition in para. 3.6.2 of Attachment #2 (also part of the Engineering Plan, CDRL A001).

4.3.2 Verify critical spares

Prior to Government acceptance, the contractor shall verify and document that each spare conforms to its product specification.

4.3.2.1 Deliverables

The contractor shall deliver a report in accordance with CDRL A008 confirming that all critical spares are operationally ready.

4.4 **OPTION 2**: In-air surveillance capability

4.4.1 Implement an in-air surveillance capability

If this option is exercised, the contractor shall fabricate, assemble, and integrate an in-air surveillance capability in accordance with the Attachment #3 specification. The system—or subsystem—shall provide an in-air surveillance capability *by integrating to the maximum extent possible NDI. Emphasis shall be placed on maintainability.*

4.4.2 Verify in-air surveillance function at the factory

The Contractor shall conduct factory verification tests for the in-air surveillance function in accordance with the factory verification procedures. The tests results shall demonstrate that the system/subsystem is ready for shipment to AUTEC and installation at the appropriate sites.

4.4.2.1 Deliverables

The contractor shall document the factory test plan in accordance with CDRL A004. The contractor shall delivery the factory test results verifying system/subsystem installation readiness in accordance with CDRL A005.

4.4.3 Ship and install system/subsystem

The contractor shall prepare the installation planning documents for government approval. The plan shall incorporate measures to address requirements. The government will review the contractor's plan prior to shipping or installing the system. In general, the government will require approximately 60 days to complete the reviews. This requirement does not include general purpose or standard laboratory instrumentation or equipment that would normally be provided from the contractor's inventory. After receipt of approvals the contractor shall ship and install the system/subsystem at the AUTEC site(s) in the locations identified in the specification.

4.4.3.1 Deliverable

The contractor shall deliver installation planning documentation in accordance with CDRL A006.

4.4.4 Site preparation

The contractor is responsible for all Andros Island site preparation and construction that may be part of the contractor's system design. These efforts include—but are not limited to—installing pads or pylons for the tower(s), erecting the tower(s), trenching coral (on land only), installing cables, and back-filling. The contractor is responsible for providing any necessary support equipment and for the shipping of all material and equipment and the transportation of all personnel to and from Andros Island. The contractor is also responsible for the transport of personnel, material, and equipment on the island.

4.4.5 Antenna alignment

The contractor shall perform antenna alignment using existing AUTEC bore sight benchmarks (provided as GFI).

4.4.6 Verify in-air surveillance functional performance on-site

The contractor shall demonstrate and document that the in-air surveillance function is operationally ready with verification tests successfully completed in accordance with the contractor's verification test plans and procedures. Within *thirty* (30) days after the contractor successfully completes system/subsystem performance verification, the Government reserves the right to conduct an operational acceptance test to validate system operational readiness.

4.4.6.1 Deliverables

The contractor shall prepare site verification test procedures in accordance with CDRL A007 and demonstrate that the test results verify the operational readiness of the in-air surveillance capability in accordance with CDRL A008.

4.4.7 Prepare a final report

The contractor shall submit a final report which summarizes the overall development and installation effort for the delivered system/subsystem. The report shall include as an attachment a revised version of the Interface specification. The contractor shall also deliver data lists and manuals including the following information: complete parts list, operations manual, maintenance manual, preventative maintenance procedures, and general descriptions of computer software flow and function

4.4.7.1 Deliverables

The contractor shall deliver a final report in accordance with CDRL A009 and data lists and manuals in accordance with CDRL A010 for operations and maintenance of the system.

4.4.8 Provide training

The contractor shall prepare and submit training materials for approval that address the operations and maintenance of the in-air surveillance function. Training shall be provided for a total of six skilled Government and M&O contractor personnel with an understanding of system functions, performance, interface and integration, theory of operations, preventative and corrective maintenance.

4.4.8.1 Deliverable

The contractor shall furnish training materials in accordance with CDRL A011 to support the contractor's training course.

4.4.9 Host progress reviews

In order for the Government to fully assess product and contract status, the contractor shall host three reviews at the contractor's facility for no more than five Government representatives. *These reviews can be held concurrently with section 4.2.9 (if this option is exercised).*

4.4.9.1 Host an initial implementation review

Within *forty-five* (45) days of the Government's exercise of this option (if exercised), the contractor shall host a review to present the engineering plans and walk through the detailed design. The detailed design walk-through shall address the conformance of the design to performance requirements including final factory and site verification plans.

4.4.9.2 Host an interim progress review

The contractor shall host an interim progress review that shall be scheduled approximately mid-way between the start of system development and the projected completion of system installation and test. In addition to a review of program status and a discussion of the remaining program milestones, the contractor shall review the in-air surveillance factory verification test procedures.

4.4.9.3 Host a pre-installation review

The contractor shall host a review to present the results of the in-air surveillance functional verification process prior to shipping the system/subsystem to the installation sites. The review shall be conducted only if the products conform to their specified requirements and are ready for delivery and installation. The contractor shall also walk through the site verification procedures. The contractor shall verify that critical spares conform to their product specifications, prior to their shipment to AUTEC (*if the option is exercised*).

4.5 OPTION #3: Critical spares for the In-Air Surveillance Subsystem

4.5.1 Acquire critical spares

If this option is exercised, the contractor shall purchase and deliver to AUTEC the critical spares for the system meeting the definition in para. 3.6.2 of Attachment #3 (also part of the Engineering Plan, CDRL A001).

4.5.2 Verify critical spares

Prior to Government acceptance, the contractor shall verify and document that each spare conforms to its product specification.

4.5.2.1 Deliverables

The contractor shall deliver a report in accordance with CDRL A008 confirming that all critical spares are operationally ready.

5.0 PROGRESS REPORTS

The contractor shall report progress monthly with respect to the baseline plans and schedules. The contractor shall include any progress payment bills submitted to the Government during the reporting month. This report shall be delivered in accordance with CDRL *A012*.

Attachment #1

8

Functional Performance Specification In-Air Tracking System (CORE Requirement plus option #1)

1 SCOPE

1.1 Background

Existing in-air tracking and surveillance systems supporting operations at the Atlantic Undersea Test and Evaluation Center (AUTEC), a United States Navy test range located on Andros Island, Bahamas, are increasingly costly to maintain. A replacement system or subsystems is to be procured that minimize(s) Life Cycle Cost.

1.2 Overall Functionality

he AUTEC In-Air Tracking and Surveillance System shall reliably include both a precision in-air tracking function and an in-air surveillance function, however, the in-air surveillance capability is optional. Figure 1 is a notional block diagram of the system. The precision tracking function autonomously localizes multiple targets on the sea surface and in air to moderate altitudes. Interface for the digital localization data to an existing government central computer system is necessary, but the government will perform this integration after system acceptance.

1.3 Tracking function overview

The tracking function for the system shall provide precision real-time track data (time space position indication, (TSPI)) for *two* (2) surface or air entities or platforms conducting tests and exercises in the AUTEC operating area. The system is required to provide accurate TSPI under all AUTEC operating conditions while minimizing life cycle cost. *The preferred approach is to meet this specification employing* tracking capability ("skin" track, no target vehicle augmentation or instrumentation); *however*, target vehicle augmentation devices (beacons, data transmitters, etc.) will be considered technically acceptable.

1.4 Document overview

This document defines the performance, installation, and verification requirements for the in-air tracking function.

2 APPLICABLE DOCUMENTS

The following Government directives are provided for information during the performance of work required under this contract. In those instances where applicable, the Government prefers that equivalent substitutes from either the contractor's established in-house practices, procedures, and systems, or commercial equivalent standards be used by the contractor in lieu of Government directives. The contractor is to keep the Government advised of any equivalent substitutes that are used, but is not required to obtain Government approval prior to implementing them.

DOCUMENT	TITLE	DATE
MIL-HDBK-419A	Grounding, Bonding, and	29 December 1987
	Shielding for Electronic	
	Equipment and Facilities (2	
	volumes)	
	AUTEC Range Preliminary	*
	Interface Requirements	
	Specification	

^{*} provided as an attachment to the solicitation.

3 REQUIREMENTS

3.1 Installation Characteristics

3.1.1 Installation Location

The contractor shall provide ground stations to meet the specified requirements that are located at a maximum of two geographic sites (coordinates given) on Andros Island. The preference for use of these site locations, shown in descending order, is as follows:

- a. Either Site #1 OR Site #2 alone
- b. Site #1 AND Site #2 together
- c. Site #2 AND Site #3 together OR Site #2 AND Site #4 together

No other combination of locations shall be acceptable.

<u>#1</u>		<u>#2</u>	
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W LONG	77 deg 46.3 min	W LONG	77 deg 43.2 min
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<u>#3</u>		#4	
	24 deg 20.3 min	$NLA\overline{T}$	24 deg 13.2 min
W LONG	77 deg 41.0 min	W LONG	77 deg 36.1 min

3.1.2 New Construction Constraints

3.1.2.1 Structure

New construction installation area shall not exceed 400 square meters at each site. Structures higher than 10 meters shall be equipped with OSHA acceptable climbing devices, work platforms, and a means of removing and installing all equipment on the structure.

3.1.2.2 Equipment Space

Contractor furnished equipment shall not occupy more than 10 square meters in the Government's existing climate-controlled space (Bldg. 1604, Command and Control Bldg. (CCB) at AUTEC, Site #1; Bldg. 2002, Instrumentation Bldg. at AUTEC, Site #2; *Bldg. 3002*,

Instrumentation Bldg. at AUTEC Site #3; and, Bldg. 4002, Instrumentation Bldg. at AUTEC Site #4. No connections to external structures /equipment shall exceed 300 meters.

3.2 Performance Characteristics

3.2.1 Altitude Coverage

Within the area of coverage, the system shall track targets from *thirty-five* (35) feet to one thousand (1,000) feet.

3.2.2 Area of Coverage

The objective for the area of coverage for the in-air tracking is to cover the entire area cited below:

N LAT 24 deg 48 min
W LONG 77 deg 28 min
,,,,
N LAT 24 deg 16 min
W LONG 77 deg 17 min

The minimum acceptable threshold for the area of coverage shall be to cover at least 90% of the shape graphically depicted in Figure #2.

3.2.3 Target Track Requirements

3.2.3.1 Number of Targets

The system shall accurately track a minimum of *two* (2) simultaneous surface and air targets performing as specified herein.

3.2.3.2 Target Size

A surface target will be considered to have the following minimum size characteristics: a moderate-length pleasure craft with a Radar Cross Section (RCS) of nominally *three* (3) square meters. An airborne target will be defined as having the following minimum size characteristics: a typical military helicopter or small fixed-wing aircraft with an RCS of nominally *three* (3) square meters.

3.2.3.3 Target Dynamics

The system shall be capable of accurately tracking dynamic targets, both along and across the line of sight, with

- 0<speed<90 knots below 400 feet; 0<speed<250 knots at 400-1000 feet.
- acceleration< 14 m/sec/sec; mid-range,

3.2.3.4 Tracking Accuracy

The residual systematic plus random errors for the system's in-air tracking function shall be less than 25 meters Circular Standard Error {two-dimensional, no altitude} over the coverage area specified *in para. 3.2.2. The preferred approach is to meet these accuracy requirements with*

unaugmented targets; however the use of augmentation devices, as long as they comply with the requirements of para. 3.7 is technically acceptable.

3.2.3.5 Tracking Update Rate

At a minimum each target location shall be updated once every *four* (4) seconds.

3.2.4 Antenna Angular Alignment

Antennas shall be aligned to existing boresight benchmarks at Sites 1, 2, 3, and 4 (provided as GFI).

3.3 Design and Construction

The contractor shall *attempt to integrate, to the maximum extent possible,* Non-Developmental Items (NDI) *into its design for the implementation of the In-Air Tracking System.* Best commercial practices shall be used for equipment design, fabrication, and installation.

3.3.1 Interchangeability

In general, items used in the designs shall require *minimal* modification for use in the system. Items requiring modification or configuration for use shall be identified and modification instructions and documentation provided.

3.3.2 Safety

AUTEC safety requirements follow OSHA standards. Best commercial practices shall be used in the design for safe operations of the system.

3.3.3 Environmental Requirements

3.3.3.1 Materials

In general, toxic or hazardous products and materials shall not be used in the implementation of the system. The system shall meet all applicable environmental and material use laws, regulations, and AUTEC use processes. Any use of toxic or hazardous products or materials shall be identified, and handling and disposal processes, procedures, and instructions shall be documented.

3.3.3.2 Exterior Equipment

All exterior equipment will be designed for survivability in an environment similar to that experienced at AUTEC. Specifically, the exterior equipment will be operational and supportable for its operational life as specified herein in a saltwater spray corrosive environment (i.e., within 500 feet of the ocean). All installed exterior equipment meet the following environmental requirements:

- Temperature, Operating: 0 to +55 degrees Centigrade
- Temperature, Non-operating: -10 to +70 degrees Centigrade
- Humidity: 0 to 95%, non-condensing
- Wind, Operating: to 80 knots
- Wind, Non-operating to 150 knots

3.3.3.3 Lightning Protection

The system shall conform to existing AUTEC standards, procedures and processes for grounding and lightening protection. The AUTEC standard for grounding and lightning protection is based on Military Handbook 419A.

3.3.3.4 Interior Equipment

All newly installed interior equipment will meet the following environmental requirements:

- Temperature, Operating: +15 to +40 degrees Centigrade
- Temperature, Non-operating: +5 to +70 degrees Centigrade
- Humidity: 0 to 95%, non-condensing

3.3.4 Electromagnetic Compatibility

The system shall be capable of operation in the electromagnetic environment in which it is installed. It shall not interfere with or degrade existing AUTEC equipment or systems nor shall it be susceptible to interference from AUTEC systems. A list of AUTEC operating frequencies will be provided in Appendix II to the Interface Requirements Specification. Frequency authorization and allocation will be a Government responsibility.

3.4 System Integration

The system shall be installed and integrated into the AUTEC Range in accordance with the AUTEC Range Preliminary Interface Requirements Specification.

3.5 Operability

3.5.1 Operational Considerations

The system must operate autonomously without need for manual control of any kind except as required for periodic maintenance and repair. If determined by the contractor to be necessary in order to meet specification requirements, the placement of airframe-approved tracking augmentation devices on targets is acceptable. These devices may be installed and operated on board Navy and commercial surface vessels, helicopters, and aircraft. Logistics associated with packaging, operations approval, and installation of any devices will be the responsibility of the Government.

3.5.2 Operational Availability

The system Operational Availability (Ao)—(Mean Time To Failure)/(MTTF+ Mean Time To Repair)—shall be equal to or greater than 0.99.

3.5.3 Operational Life

The system shall be designed to be operational and supportable for 15 years from the date of acceptance.

3.5.4 Operational Utilization

The system shall be capable of operating a minimum of 2500 hours/year. It shall be capable of nominal operational schedules of 10 hours per day seven days per week. In addition, it shall be capable of sustained operations of 24 hours a day, 7 days per week for periods of 2 weeks.

3.5.5 **Power**

The system shall operate from available site power. The power available at each site is 110/220 VAC, 60 Hz, single phase, 5 KVA maximum.

3.6 Supportability

The contractor shall provide reasonable assurance that technical services and replacement parts will be available, without extensive delays, to support operation of the proposed system for its operational life as defined herein. Extensive delays are considered to be periods of longer than five days starting six months after system acceptance progressing to five weeks after 10 years in operation.

3.6.1 Life Cycle Cost

The contractor shall minimize system Life Cycle Cost.

3.6.2 Option #1- Critical Spares (core requirement) (if option exercised)

The contractor shall provide critical spares for this system per the following definition: those items at the Line Replaceable Unit level that have an expected Mean Time Between Failure (MTBF) of four thousand or fewer hours.

3.7 Use of augmentation devices

As noted in para. 3.2.3.4, the contractor may use augmentation devices to support the tracking accuracy requirement and the full tracking coverage area of para. 3.2.2. If the contractor's design requires the Government to equip AUTEC range users with augmentation devices (for example, beacon transponders), the contractor is required to provide four (4) units simultaneously with the system. The only exception is if the contractor's design/delivered system will use either: 1) AUTEC's existing beacon transponders (for a listing, see the Range Transponder Assets section of Attachment #6), or 2) other beacons in use at other Government test facilities (for listing, see Attachment #6). Of these two choices, the use of AUTEC's existing transponders is preferred.

3.7.1 Target Identification

If augmentation devices are used, the system shall provide an operator with the ability to display positional information on a particular target as clearly distinct from those of the other tracked targets.

3.7.2 Operational Considerations

It is acceptable to the Government to have augmentation devices installed and operated on board Navy and commercial surface vessels, helicopters, and aircraft. The logistics associated with packaging, operations approval, and installation of any such devices shall be the responsibility of the Government.

3.7.3 Augmentation Device Environmental Requirements Augmentation devices, if used, shall withstand the following additional environmental conditions:

Shock: 15 g's, 10 milliseconds

Vibration: 10 Hz-55 Hz, 0.06 inch displacement for 2.5 hours

3.7.4 Augmentation Device Power Requirement

Augmentation devices, if used, shall be capable of nominal 12 hour autonomous operation.

3.7.5 Augmentation Device Critical Spare Parts

The contractor shall provide critical spares relating to augmentation devices, if used, which meet the same definition as that for the basic in-air tracking system (see para. 3.6.2- if option #1 is exercised).

Performance Specification AUTEC In-Air Surveillance Subsystem

(*Options #2 and #3*)

1 SCOPE

1.1 Background

Existing in-air tracking and surveillance systems supporting operations at the Atlantic Undersea Test and Evaluation Center (AUTEC), a United States Navy test range located on Andros Island, Bahamas, are increasingly costly to maintain. If this option is exercised, a replacement system or subsystems that minimize(s) Life Cycle Cost is to be provided/installed.

1.2 Overall Functionality

Figure 1 is a notional block diagram of the system (including the core requirement for an in-air tracking capability). The in-air surveillance function autonomously detects and reports multiple targets to significant altitudes. Interface for the digital target detection data to an existing government central computer system is necessary, but the government will perform this integration after system acceptance. Fusion of the optional search data with the required track data is not a requirement of this procurement.

1.3 Document overview

This document defines the performance, installation, and verification requirements for the in-air surveillance function of the system.

2 APPLICABLE DOCUMENTS

The following Government directives are provided for information during the performance of work required under this contract. In those instances where applicable, the Government prefers that equivalent substitutes from either the contractor's established in-house practices, procedures, and systems, or commercial equivalent standards be used by the contractor in lieu of Government directives. The contractor is to keep the Government advised of any equivalent substitutes that are used, but is not required to obtain Government approval prior to implementing them.

DOCUMENT	TITLE	DATE
MIL-HDBK-419A	Grounding, Bonding, and	29 December 1987
	Shielding for Electronic	
	Equipments and Facilities (2	
	Volumes)	
	AUTEC Range Preliminary	*
	Interface Requirements	
	Specification	

^{*} provided as an attachment to the solicitation.

3 REQUIREMENTS- for Option #2 (if option exercised)

3.1 Installation Characteristics

3.1.1 Installation Location

The contractor shall provide ground stations to meet the specified requirements that are located at a maximum of two geographic sites (coordinates given) on Andros Island. The preference for use of these site locations, shown in descending order, is as follows:

- a. Either Site #1 OR Site #2 alone
- b. Site #1 AND Site #2 together
- c. Site #2 AND Site #3 together OR Site #2 AND Site #4 together

No other combination of locations shall be acceptable.

3.1.2 New Construction Constraints

3.1.2.1 Structure

New construction installation area shall not exceed 400 square meters at each site. Structures higher than 10 meters shall be equipped with OSHA acceptable climbing devices, work platforms, and a means of removing and installing all equipment on the structure.

3.1.2.2 Equipment Space

Contractor furnished equipment shall not occupy more than 10 square meters in the Government's existing climate-controlled space (Bldg. 1604, Command and Control Bldg. (CCB) at AUTEC, Site #1; Bldg. 2002, Instrumentation Bldg. at AUTEC, Site #2; Bldg. 3002, Instrumentation Bldg. at AUTEC Site #3; and, Bldg. 4002, Instrumentation Bldg. at AUTEC Site #4). No connections to external structures /equipment shall exceed 300 meters.

3.2 Performance Characteristics

3.2.1 Altitude Coverage

The surveillance function shall be capable of detecting and reporting air targets from five hundred (500) feet to ten thousand feet (10,000).

3.2.2 Area of Coverage

Under nominal conditions the surveillance function shall be capable of detecting and reporting air targets within a radius of *fifty* (50) nmi. from the *sensor*.

3.2.3 Target Reporting Requirements

3.2.3.1 Number of Targets

The surveillance function shall be capable of detecting and reporting a minimum of 50 simultaneous targets.

3.2.3.2 Target Size

The surveillance function shall be capable of detecting and reporting air targets with a minimum Radar Cross Section (RCS) of *three* (3) square meters, an RCS comparable to a small commercial aircraft.

3.2.3.3 Target Dynamics

The surveillance function shall be capable of detecting and reporting static and dynamic air targets both along and across the line-of-sight with the following characteristics:

- $0 \le \text{speed} \le 250 \text{ knots}$
- Acceleration<= 14 m/sec/sec; mid-range.

3.2.3.4 Target Reporting Accuracy

The residual systematic plus random errors for the system's surveillance function shall be less than 150 meters Circular Standard Error {two-dimensional, no altitude} over the full coverage area specified.

3.2.3.5 Target Update Rate

At a minimum each target position shall be updated once every six (6) seconds.

3.2.4 Detection Probability

The Probability of Detection (P_D) shall be greater than or equal to 0.99 under nominal conditions (i.e., periods during which local weather and atmospheric states are considered typical).

3.2.5 Probability of False Alarm (Detection)

The Probability of False Alarm (P_{FA}) shall be less than or equal to 0.001 under nominal conditions (i.e., periods during which local weather and atmospheric states are considered typical).

3.3 Design and Construction

The contractor shall *attempt to integrate*, *to the maximum extent possible*, *NDI into its design of the In-Air Surveillance subsystem*. Best commercial practices shall be used for equipment design, fabrication, and installation.

3.3.1 Interchangeability

In general, *items used in the designs shall require minimal modifications for use in the system*. Items requiring modification or configuration for use shall be identified and modification instructions and documentation provided.

3.3.2 Safety

AUTEC safety requirements follow OSHA standards. Best commercial practices shall be used in the design for safe operations of the system.

3.3.3 Environmental Requirements

3.3.3.1 Materials

In general, toxic or hazardous products and materials shall not be used in the implementation of the system. The system shall meet all applicable environmental and material use laws, regulations, and AUTEC use processes. Any use of toxic, or hazardous products or material shall be identified and handling and disposal processes, procedures, and instructions shall be documented.

3.3.3.2 Exterior Equipment

All exterior equipment will be designed for survivability in an environment similar to that experienced at AUTEC. Specifically, the exterior equipment will be operational and supportable for its operational life as specified herein in a saltwater spray corrosive environment (i.e., within 500 feet of the ocean). All installed exterior equipment meet the following environmental requirements:

- Temperature, Operating: 0 to +55 degrees Centigrade
- Temperature, Non-operating: -10 to +70 degrees Centigrade
- Humidity: 0 to 95%, non-condensing
- Wind, Operating: to 80 knots
- Wind, Non-operating to 150 knots

3.3.3.3 Lightning Protection

The system shall conform to existing AUTEC standards, procedures and processes for grounding and lightening protection. The AUTEC standard for grounding and lightning protection is based on MIL Handbook 419A.

3.3.3.4 Interior Equipment

All newly installed interior equipment will meet the following environmental requirements:

- Temperature, Operating: +15 to +40 degrees Centigrade
- Temperature, Non-operating: +5 to +70 degrees Centigrade
- Humidity: 0 to 95%, non-condensing

3.3.4 Electromagnetic Compatibility

The system shall be capable of operation in the electromagnetic environment in which it is installed. It shall not interfere with or degrade existing AUTEC equipment or systems; nor shall it be susceptible to interference from AUTEC systems (for a list of AUTEC operating

frequencies see Appendix II to Attachment #5). Obtaining frequency authorization and allocation will be a Government responsibility.

3.4 System Integration

The system incorporating the surveillance function shall be installed and integrated into the AUTEC Range in accordance with the AUTEC Range Interface Requirements Specification.

3.5 Operability

3.5.1 Operational Considerations

The system must operate autonomously without need for manual control of any kind except as required for periodic maintenance and repair.

3.5.2 Operational Availability

The system Operational Availability (Ao)—(Mean Time To Failure)/(MTTF+ Mean Time To Repair)—shall be equal to or greater than 0.99.

3.5.3 Operational Life

The system shall be designed to be operational and supportable for 15 years from the date of acceptance.

3.5.4 Operational Utilization

The system shall be capable of operating a minimum of 2500 hours/year. It shall be capable of nominal operational schedules of 10 hours per day seven days per week. In addition, it shall be capable of sustained operations of 24 hours a day, 7 days per week for periods of 2 weeks.

3.5.5 **Power**

The system shall operate from available site power. The power available at each site is 110/220 VAC, 60 Hz, single phase, 5 KVA maximum.

3.6 Supportability

The contractor shall provide reasonable assurance that technical services and replacement parts will be available, without extensive delays, to support operation of the proposed system for its operational life as defined herein. Extensive delays are considered to be periods of longer than five days soon after system acceptance progressing to five weeks after 10 years in operation.

3.6.1 Life Cycle Cost

The contractor shall minimize system Life Cycle Cost.

3.6.2 Option #3- Critical Spares (if option exercised)

The contractor shall provide critical spares for this in-air surveillance system per the following definition: those items at the Line Replaceable Unit level that have an expected Mean Time Between Failure (MTBF) of four thousand or fewer hours.

Logistics Considerations Atlantic Undersea Test & Evaluation Center (AUTEC)

Location:

The installation work site is the Atlantic Undersea Test and Evaluation Center (AUTEC) located on Andros Island in the Bahamas. AUTEC is located 177 miles from West Palm Beach (WPB) International Airport. There are 3 flights per day from WPB to Andros at a cost of approximately \$192 per round trip*. This is a Government-provided flight. Heavy equipment must be shipped in via a weekly barge.

* subject to change

The Contractor may utilize the Bachelor Officer Quarters for lodging, Navy Exchange and Base Cafeteria for meals. Per Diem rate for AUTEC is approximately \$22/day room and board. All logistics for the installation shall be coordinated with the AUTEC Project Manager/Technical Liaison, designated as:

To be completed at time of award.

Transportation:

Ocean – The project is supplied via a weekly tug and barge service originating at Port Canaveral, Fl. There is no charge to an external vendor for material shipment directly supporting an AUTEC project, however all other supplies shipped via barge are charged a Military Sealift Command assigned commodity rate.

The barge normally departs Monday evenings from Port Canaveral and arrives at Andros Island Thursday morning. All material requiring shipment must arrive at Port Canaveral the preceding Friday been 12:00pm (noon) to facilitate proper vessel manifesting.

(See F18R for Port Canaveral shipping addresses).

Air – For short-fused material demand, AUTEC operates three to five passenger aircraft flights from Palm Beach International Airport to Andros island. The aircraft have limited storage capacity for high priority material transport and can be used accordingly. There is no cost to ship supplies via AUTEC's aircraft, however, the material is subject to delay based on passenger requirements. No flammable nor hazardous material may be transported on the aircraft.

1

The Air Terminal address is:

Raytheon Range Systems Engineering 1624 Perimeter Road West Palm Beach, FL 33406

Lodging

Quarters – Available at the Bachelors Officers Quarters.

Meals – Available at two dining facilities.

Misc. – Small retail store available for food items, toiletries, and a limited selection of amenities.

INSTRUCTIONS FOR VISITING AUTEC

1. How to: Visitors/Customers contact:

AUTEC Operations Enterprise Team, Code 7006

Jean M. Myers DSN: 483-7203

Comm: 561-832-8566 X7203

AUTEC Prog/Sched/Bus Dev Office, Code 7006PM

Heidi H. Lloyd DSN: 483-7326

COMM: 561-832-8566 x7326, **OR**

AUTEC Program Office, Code 7005

DSN: 920-3369

COMM: 401-832-3369

- **2. Info Required by AUTEC**: Purpose/dates of visit, Test # and Test Program Manager or other point-of-contact on a Standard Visit Request Form. Passport, birth certificate or voter's registration card.
- **3. Info provided by AUTEC:** If not test related, AUTEC issues a control # and provides the cost for reservations on the AUTEC aircraft (contact your AUTEC sponsor for a control number). For all visitors, AUTEC provides local maps, schedules, customs requirements and/or other relative information as necessary.
- **4. Visitors provide:** Standard Visit Request Form one of the following ways:

Fax: 561-832-8590 or Security 561-655-7110

U.S. MAIL TO:

OFFICER IN CHARGE NAVAL UNDERSWEA WARFARE CNETER DETACHMENT AUTEC P.O. BOX 24619 WEST PALM BEACH, FL 33416-4619

OR STANDARD NAVAL MESSAGE TO:

MSG PLAD: NAVUNSEAWARCEN DET AUTEC WEST PALM BEACH FL //7006PM//

5. Upon receipt, the Visit Request Form or Naval Message is verified by the AUTEC P.O.C. and processed into the West Palm Beach Security Database for use by WPB/ASD personnel to badge/house/manifest and grant appropriate access to controlled areas.

6. Foreign Visitors:

- Must contact their respective Embassy to initiate a Country-to-County clearance, which is then submitted to International Programs Office (IPO), Washington D.C. for further official documentation (i.e. Naval Message with "Assignment" number and disclosure statement forwarded directly to the Test Program Manager and Program Assistant, Code 7006PM)
- Upon receipt, AUTEC verifies disclosure information, determines the level of classification for the purpose of the visit and approves via phone call to IPO. A formal "Approval" message is generated and forwarded to AUTEC for completion of clearance data.
- Upon receipt of the "Approval" message AUTEC processes an Informal Memorandum from the Operations Enterprise Team Leader to the Officer in Charge for approval/endorsement. The Memorandum along with the "Approval" message is forwarded to WPB Security for input to the database for action of routine processing (i.e., housing/badging/manifesting etc.)

Timeline:

Foreign Visitors have a minimum 30-day processing time.

Domestic Visitors have a minimum 24-hour processing time.

SEE CLAUSE C25R for other rules/procedures dealing with Access to the Government Site at Andros.

3 Attachment #4

PRELIMINARY INTERFACE REQUIREMENTS SPECIFICATION (AUTEC)

1. SCOPE

1.1. Purpose

This document defines the interface between the AUTEC range and the In-Air Tracking and Surveillance System. Since this system is yet to be procured under contract, the details provided prior to contract award relate to site power, range timing, intra-site communications, and desired outputs described in functional terms.

A final version of the AUTEC Tracking and Surveillance System Interface Requirements Specification shall be delivered with the delivery of the system or subsystems in accordance with the Statement of Work.

1.2. Limitations and restrictions

The contractor is responsible for subsystem delivery, installation, and performance verification in accordance with the terms of the contract. The government will be responsible for completing the integration of these subsystems into the range operations center and their final performance validation.

2. APPLICABLE DOCUMENTS

None.

3. INTERFACE REQUIREMENTS

3.1. Interface Functional Diagram

Figure 1 is a notional system interface block diagram.

3.2. In-Air Tracking Functional Interface *Data Requirements*

3.2.1. Data Transfer

Track data for up to *two* (2) simultaneous targets shall be updated at a minimum of once every *four* (4) seconds. (NOTE: The total data transfer requirement includes the data transferred from both the in-air tracking function and the in-air surveillance function.)

3.2.2. Data Element Characteristics

Track Data Elements	Characteristics
Track Azimuth	TBS
Track Range	TBS

1 Attachment #5

Time of Track	Range IRIG Time; Details TBS
Track Number	TBS
Track Quality	TBS

System Status Elements	Characteristics	
TBS	TBS	

System Control Elements	Characteristics	
TBS If Applicable	TBS If Applicable	

Range Timing	Characteristics	
IRIG-B	Standard IRIG-B Format	

3.2.3. Data Element Assembly Characteristics

Data Element	Assembly Characteristics	
Tracking Data	TBS	
System Status	TBS	
System Control (If Available)	TBS	
Range Timing	Standard IRIG-B Output format	

3.2.4. Communication Method Characteristics

Government cable interconnections after system acceptance.

3.2.5. Protocol Characteristics

Contractor shall propose available options.

3.2.6. Electronic Signal, Cable, and Connector Characteristics

Range Timing Connection					
ConnectorCable ConnectorSignal ConnectorCable ConnectorConnector				Connector	
GFE	GFE	GFE Cable	TBS	TBS	
		Standard IRIG Cable, TBS Feet			

Track Data Connection					
Connector	Connector Cable Signal Cable Connector				
	Connector		Connector		
GFE	GFE	TBS	TBS	TBS	

System Status Connection				
Connector	Cable	Signal	Cable	Connector
	Connector		Connector	

Government Government TBS TBS TBS

Control Connection					
Connector	Cable	Signal	Cable	Connector	
	Connector		Connector		
Government	Government	TBS	TBS	TBS	

NOTE: At present Track Data, System Status, and Control functions are represented as individual cables. Ultimately these signals may be assigned to the same physical cable, depending on the system design.

3.2.7. Site Layout Information (applies to all four sites)

See Appendix I.

3.2.8. Electrical Power Characteristics

At each of the four sites, electrical power is furnished by a generator.

Electrical Power	Characteristics
Source	Generator
Voltage	110/220 Volts +/- 10%
Frequency	60 Hz
Maximum Available Power	5 kVA

3.2.9. Environmental Characteristics

See Appendices I & II.

3.3. In-Air Tracking Functional Interface Communications Requirements

The communication between sites, utilizing the Government's microwave system, will be driven by the contractor's design. The details for the interface to the microwave system are furnished in Appendix III. The contractor shall furnish complete interface documentation for the communications link between sites in accordance with its design.

3.3.1. Data Transfer

Track data for up to *two* (2) simultaneous targets shall be updated at a minimum of once every *four* (4) seconds. (NOTE: The total data transfer requirement includes the data transferred from both the in-air tracking functions and the surveillance functions.)

3.3.2. Data Element Characteristics

The contractor shall document this information according to the system design.

Range Timing	Characteristics
IRIG-B	Standard IRIG-B Format

Microwave Communication	Characteristics
See Appendix III	See Appendix III

3

3.3.3. Data Element Assembly Characteristics

The contractor shall document this information according to the system design.

3.3.4. Communication Method Characteristics

The available bandwidth for tracking and surveillance operations is *two*, 56 kbs channels. There is one channel for transmitting *down range*, and one channel for transmitting *up range*.

3.3.5. Protocol Characteristics

Contractor shall document the communications protocol for this interface.

3.3.6. Electronic Signal, Cable, and Connector Characteristics

Range Timing Connection				
Connector	Connector Cable Cable/Signal Cable Connector			
	Connector		Connector	
GFE	GFE	TBS	TBS	TBS
		Standard IRIG Cable, TBS Feet		

Microwave Interface Connection				
Connector Cable Cable/Signal Cable Connector Connector				
GFE	TBS	TBS	TBS	TBS
See Appendix II	I			

3.4. In-Air Surveillance Functional Interface *Data Requirements*

3.4.1. Data Transfer

Up to *fifty* (50) target detections shall be transmitted once every *six* (6) seconds.

3.4.2. Data Element Characteristics

Target Detection Data Elements	Characteristics
Target Detection Azimuth	TBS
Target Detection Range	TBS
Time of Detection	Range IRIG Time; Details TBS

System Status Elements	Characteristics
TBS	TBS

System Control Elements	Characteristics
TBS If Applicable	TBS If Applicable

Range Timing	Characteristics	
IRIG-B	Standard IRIG-B Format	

4 Attachment #5

3.4.3. Data Element Assembly Characteristics

Data Element Assembly Characteristics	
Target Detection Data	TBS
System Status	TBS
System Control (If Available)	TBS
Range Timing	Standard IRIG-B Output format

3.4.4. Communication Method Characteristics

Government cable interconnections after system acceptance.

3.4.5. Protocol Characteristics

Contractor shall propose available options.

3.4.6 Electronic Signal, Cable, and Connector Characteristics

Range Timing Connection				
Connector Cable Signal Cable Connector				
	Connector		Connector	
GFE	GFE	TBS	TBS	TBS
		Standard IRIG Cable, TBS Feet		

Target Detection Data Connection				
Connector	Connector Cable Signal Cable Connector			
	Connector		Connector	
GFE	GFE	TBS	TBS	TBS

System Status Connection				
Connector	Cable	Signal	Cable	Connector
	Connector		Connector	
GFE	GFE	TBS	TBS	TBS

Control Connection				
Connector	Cable	Signal	Cable	Connector
	Connector		Connector	
GFE	GFE	TBS	TBS	TBS

NOTE: At present Target Detection Data, System Status, and Control functions are represented as individual cables. Ultimately these signals may be assigned to the same physical cable, depending on the system design.

3.4.7. Sites Layout Diagram (applies to all four sites) See Appendix I.

5 Attachment #5

3.4.8. Electrical Power Characteristics

At each of the four Sites, electrical power is furnished by a generator.

Electrical Power	Characteristics
Source	Generator
Voltage	110/220 Volts +/- 10%
Frequency	60 Hz
Maximum Available Power	5 kVA

3.4.9. Environmental Characteristics

See Appendices I & II.

3.5. In-Air Surveillance Functional Interface Communication Requirements

The communication between Sites, utilizing the Government's microwave system, will be driven by the contractor's design. The details for the interface to the microwave system are furnished in Appendix III. The contractor shall furnish complete interface documentation for the communications link between Sites in accordance with its design.

3.5.1. Data Transfer

Up to *fifty* (50) target detections shall be transmitted once every *six* (6) seconds.

3.5.2. Data Element Characteristics

The contractor shall document this information based on the system design.

Range Timing	Characteristics
IRIG-B	Standard IRIG-B Format

Microwave Communication	Characteristics
See Appendix III	See Appendix III

3.5.3. Data Element Assembly Characteristics

Contractor shall document based on system design.

3.5.4. Communication Method Characteristics

The available bandwidth for tracking and surveillance operations is *two*, 56 kbs channels. There is one channel for transmitting *down range*, and one channel for transmitting *up range*.

3.5.5. Protocol Characteristics

Contractor shall document the communications protocol for this interface.

3.5.6. Electronic Signal, Cable, and Connector Characteristics

Range Timing Connection				
Connector	Cable	Signal	Cable	Connector
	Connector		Connector	
GFE	TBS	TBS	TBS	TBS

6

	Standard IRIG Cable, TBS Feet	

Microwave Interface Connection				
ConnectorCable ConnectorCable/Signal ConnectorCable ConnectorConnector				
GFE	TBS	TBS	TBS	TBS
See Appendix III				

4. VERIFICATION

4.1 Prior To Installation:

Prior to the shipment of the system/subsystems, the contractor shall verify that all site-provided interface connections are as specified herein.

4.2 Prior To Final System Acceptance:

Prior to final acceptance of the system/subsystems, the contractor shall verify that all contractor furnished system/subsystem interface connections are as specified herein.

Facility Building No.	Facility Name
1001	RADAR EQUIPMENT BUILDING
1003	HELICOPTER HANGER
1004	ADMIN
1005	HELICOPTER LANDING PADS
1007	SEPTIC TANK/DRAIN FIELD NO 1
1009	FLAGPOLE
1011	COMMUNICATIONS ANTENNA
1014	RAWIN BLDG
1015	AIR OPS PASSENGER LOUNGE
1017	SECURITY-PASS/ID
1018	WELL FIELD/PUMP
1019	BASE CHAPEL
1023	FLAMMABLE STORAGE, HELIPORT
1027	TORPEDO CAGE RECOVERY AREA
1030	HELIPORT RANGE USER FACILITY
1031	FUEL TRUCK BERM-HELIPORT
1032	SONOBUOY LOCKER-SITE 1
1033	RANGE USER HANGAR
1034	500 GA DIESEL BERM-HELIPORT
1101	BALL FLD/LIGHTED/16384 SF
1102	TENNIS COURT/LIGHTED
1103	BASKETBALL COURT/7980 SF
1106	VOLLEYBALL COURT
1107	SCHOOL DAYCARE CENTER
1108	RACQUETBALL COURT
1109	BALLFIELD CONCESSION STAND
1110	COMMUNITY REC SHELTER
1192	SEWAGE LIFT STATION
1201	BACH.CIV. QTRS(OFF)/LOUNGE
1202	DINING FACIL(E/M CIV EQUIV)
1203	ELEVATED WATER TANK
1204	
1205	MESS HALL
1206	DISPENSARY/DENTAL CLINIC
1207	LAUNDRY/LOUNGE/SNACKBAR
1208	FUEL OIL TANK AT BOQ
1209	MM STANDBY BOILER SHELTER
1210	FUEL OIL TNK AT SUBSIST BLDG
1211	FUEL OIL TANK AT BARRACKS
1212	FUEL OIL TANK AT LAUNDRY
1213	DOUBLET ANTENNA C
1215	ADMIN WEST
1216	SANITARY FACILITY
1217	DRY/PERIS STG BLDG
1218	COLD STORAGE WAREHOUSE
1220	MM CHILLER STRG
1221	CONCRETE BLOCK HSG., NO 1
1222	CONCRETE BLOCK HSG., NO. 2
1223	CONCRETE BLOCK HSG., NO. 3
1224	CONCRETE BLOCK HSG., NO. 4
1225	CONCRETE BLOCK HSG., NO. 5
1226	CONCRETE BLOCK HSG. NO. 6
1227	CONCRETE BLOCK HSG, NO. 7
1221	CONTROL I E DECORTION, NO. 1

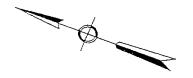
1228	CONCRETE BLOCK HSG. NO. 8
1229	CONCRETE BLOCK HSG NO. 9
1230	CONCRETE BLOCK HSG NO. 10
1231	BOS QUARTERS
1232	FREEZER FACILITY
1233	SATTELLITE RECEIVING ANTENNA
1301	BX RETAIL STORE
1302	FINANCE OFFICE
1303	POST OFF/BEAUTY SHOP
1304	ER/THEATER/TECH TRNG BLDG
1305	TENNIS COURT/LIGHTED
1313	BX WAREHOUSE
1317	CATV ANTENNA TOWER
1318	CATV RECEIVING BUILDING
1319	SATELLITE RECEIVING ANTENNA
1320	TVRO SATELLITE EARTH STATION
1321	RO WELL FIELD/PUMPS
1322	SATELLITE RECEIVING ANTENNA
1323	CATV RECEIVER ANTENNA
1324	ELEC CART STOR/BAT CHRG AREA
1368	LAUNDRY, DETACHED
1401	FIRE STATION/POLICE
1402	DISL OIL STG TNK/86940 GA
1403	EVAPORATOR PLANT/2 AT 10TG E
1404	POWER PLANT/5000 KW PUBLIC WORKS SHOP
1405	AUTO VEH MAINTENANCE
1406 1407	WAREHOUSE NO. 1
1407	PUBLIC WORKS SHOPS
1411	PW STORAGE NO. 2
1413	GENERAL WAREHOUSE
1414	VEHICLE MAINT SHOP
1415	MECO DISTILLATION BUILDING
1418	PW CARPENTER SHOP
1419	DIESEL ENGINE OVERHAUL SHOP
1420	SUPPLY ADMIN. BLDG.
1421	CONTROLLED HUMIDITY WAREHOUS
1424	CONCRETE SERVICE PAD
1425	HOUSING WAREHOUSE
1426	1000 KW INERTIA PADS (2)
1427	WASTE OIL STRG FAC
1428	DIESEL ENGINE WASHDOWN
1500	FUEL FARM BERM
1501	AV JET TANK
1502	AVJET TANK / FUEL LINE
1503	DIESEL STG TNK/424486 GAL
1505	TREATED WATERTANK
1506	WATER SUPPLY PUMP HOUSE
1507	WATER TREATMENT UTILITY BLDG
1508	WATER FILTERS (2) 2.24TGM
1509	RAW WATER TANK
1511	WATER CATCH PUMP FAC 700 GM
1512	SEWAGE TREATMENT BLDG
1517	WATER CATCHMENT BASIN

1520	RAW WATER TANK
1521	FLAMMABLE STORAGE AREA
1524	INFILTRATION GALLERY WATER
1526	SEWAGE EFFLUENT PUMP STATION
1528	SEWAGE FILTER BED
1529	PROJECTS MATLS SHED
1530	STORAGE RDT&E WAREHOUSE
1531	AV-JET FUEL STRG. TANK
1536	CONCRETE BATCH PLANT
1537	RO PLANT BUILDING
1537	MOGAS TANK - 20000 GA
1539	F-963 RESEARCH WAREHOUSE
1540	COVERED STORAGE NURSERY
1541	FIRE TRAINING FACILITY
1542	FASCO STORAGE FAC PAD
1543	CHEM LAB
1544	HAZARDOUS WASTE STORAGE FAC.
1545	FASCO GUARDHOUSE
1546	TACAN LF NDB ANTENNA
1547	TACAN NDB TOWER/ANTENNA
1548	TACAN INSTR BLDG
1549	ABRASIVE BLAST FAC
1550	SOLID WASTE PROCESSING CTR
1551	HAZMART FACILITY
1552	BATCH PLT CNTRL HSE
1553	AVJET/DIESEL BOTTOM LOADER
1601	MASTER SEWAGE LIFT STATION 2
1602	RANGE SUPPORT SHOP
1603	SEWAGE LIFT STATION #2 2 AT
1604	COMMAND CONTROL BLDG
1605	RACE TOWER
1606	BLAST DEF WALL/SEC FENCE
1607	GUARD SHACK AT WPNS SHOP
1612	RANGE MARKER NO. 2
1624	GEN WAREHOUSE R/I RDT&E
	ANTENNA POLE/WIRE - SSB
1628	
1629	BEACH RECREATION FACILITY
1630	BEACH BARBEQUE AREA
1632	SEWAGE LIFT STA NO 3 SHED
1640	ARA HOBBY SHOP STORAGE
1641	MK48 FACILITY
1642	HOBBY SHOP ARTS & CRAFTS
1645	ARA HOBBY SHOP STORAGE
1646	ARA HOBBY SHOP STORAGE
1649	SEWAGE EFFLUENT PUMPSTA SHED
1650	RANGER USER FACILITY
1660	SEWAGE TREATMENT PLANT
1663	AVJET FUEL TANK/61,110 GAL
1669	HAZARDOUS MATERIAL STORAGE A
1672	BEACH RECREATION AREA
1673	BANDSTAND
1676	RANGE OPS & INSTR LAB-CCB AN
1678	COMMUNITY CENTER
1679	MONOPOLE TOWER, 150 FT.

1681	RANGE USER SHOP FAC. NO. 2
1682	SPEARFISH R/U FACILITY
1683	R/U EQUIP COVERED STORAGE
1684	TORPEDO POST RUN FAC
1685	SATELLITE EARTH STATION
1686	SEWAGE FILTER SAND PIT
1687	STANDBY GENERATOR FAC
1688	APS MUSE PAD
1689	500 GA DIESEL TANK/BERM
1690	SSB/HF ANTENNA
1691	MULTI-FUNCTIONAL TOWER
1692	STINGRAY DE-PREP FAC
1693	CHLORINATOR SHELTER
1694	FILLING STATION
1701	TRANSMITTER BUILDING
1702	BOTTLED GAS STORAGE BUILDING
1703	SEPTIC TANK/DRAIN FLD NO 2
1705	CONICAL MONOPOLE ANTENNA B
1712	NORFOLK DOUBLET ANT
1713	HIGH FREQ DIPOLE ANTENNA ARR
1714	NMCB OFFICE/SHOP BLDG
1715	NMCB VEHICLE WASHRACK
1716	RNMCB TIRE REPAIR SHOP
1717	RNMCB BOTTLE STORAGE FAC
1718	BOTTLED GAS STORAGE
1801	ACID STORAGE FAC
1802	MAGAZINE A
1803	MAGAZINE B
1804	HIGH EXPLOSIVE MAGAZINE
1805	SALT WATER PUMP STA 480 GM
1806	RADAR BUILDING
1810	RUBBLE FLUME
1811	FLUME NO. 2
1812	FLUME NO. 3
1901	WELDING SHOP
1902	SMALL CRAFT PIER
1903	NORTH JETTY SOUTH JETTY
1904 1905	LOADING RAMP NO. 1
1905	WATERFRONT OPERATIONS BLDG
1906	SEPTIC TANK/DRAIN FLD NO 3
1907	PILE MOORING/SMALL BOAT
1909	QUAY WALL
1911	RANGE MARKER NO. 1
1913	RIGGERS/LABORERS SHOP
1914	SMALL BOAT REPAIR SHOP
1917	DIESEL FUEL FILTER
1917	PUBLIC TOILET
1921	INSTRUMENT TEST TOWER
1921	MARINE OPERATIONS BLDG.
1923	BOAT RAMP #3
1925	SEWAGE PUMP STATION #5
1927	RECREATION BOATHOUSE
1934	OCEAN HAULDOWN FACILITY

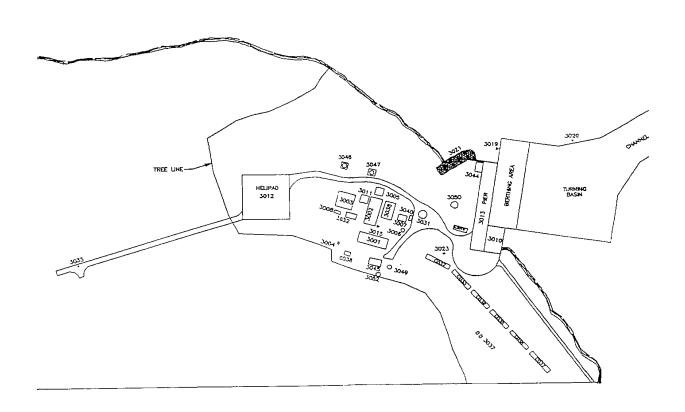
	TEST MODEL FACILITY OHDF OFFSHORE TOWER MACHINE/WELD SHOP DEHOSING FACILITY AEROSTAT MOORING PLATFORM HARRISON WHRF REFUELING STA CCB BEACH LIFT STA BOOM REEL THEODOLITE TOWER THEODOLITE TOWER THEODOLITE TOWER RADAR/THEO REFLECTOR RADAR/THEO REFLECTOR SECURITY FENCING ROADS/CORAL ELECT DISTR LINES WATER DISTRBN LINES (POT) FIRE PROTECTN PIPELINE COMM LINE (TEL.) SEWAGE AND WASTE LINES DRAINAGE DITCHES HELIPORT PAD LIGHTING PARKING AREA/BITUMINOUS SIDEWALKS/CORAL INTERIOR FENCING SEWAGE OUTFALL DITCH ROADS/CONC CURBS SIDEWALKS/CONCRETE SECURITY WALL/MAIN GATE ROADS/BIT STORM SEWER CULVERTS TAXIWAY/HELICOPTER STREET LIGHTING COMM LINES TELEMETRY PARKING AREA/CONCRETE ROADS-CONCRETE MISC LAYDOWN AREA HELICOPTER ACCESS APRON FUEL OIL DIST LINE AVJET WATER SUP MAIN CAVITIES FUEL OIL DIST LINE AVJET WATER SUP MAIN CAVITIES FUEL OIL DIST LINE DIESEL HELICOPTER PARKING APRON OPEN STORAGE, SUPPLY CATY DISTRIBUTION SYSTEM OTHER PAVED AREA FUEL OIL DIST LINE - MOGAS PERIMETER/SECURITY LIGHTING FIRE ALARM SYSTEM
1010T	RSS RDT&E LAYDOWN AREA
1018T 1402B	POT WATER STRG TANK DIESEL TANK BERM
1404E	POWER PLANT/7500 KW
1506P	WATER SUPPLY PUMP HOUSE
1526S	SEWAGE EFFLUENT PUMP STA

1537P 1537S 1601S 1603S 1632P 1649P 1663B 1687E 1805W 1925S 2001 2002 2003 2004 2005 2006 2007 2008 2010 2012 2013 2015 2019 2020 2021	RO PLANT EQUIPMENT RO AIR COMPRESSOR SHED MASTER SEWAGE LIFT STAT. 2 MASTER SEWAGE LIFT STATION N SEWAGE LIFT STATION #3 SEWAGE EFFLUENT PUMP STATION AVJET TANK BERM STANDBY GENERATOR FAC/500 KW SALT WATER PUMP STATION 480G SEWAGE LIFT STA #5 CIVILIAN BARRACKS W/MESS INSTRUMENTATION BUILDING GENERATOR BUILDING 400KW RADAR TOWER THEODOLITE TOWER WATER STORAGE TANK NO. 1 PUMP SHED DIESEL STG TANK NO 1/5000 GA RAMP/LANDING CRAFT/60 LF HELICOPTER LANDING PAD WHARF SEPTIC TANK AND DRAINFIELD MOORING DOLPHIN NO. 1/3 PI MOORING DOLPHIN NO. 2/3 PI RADAR CALIB TOWER NO. 1
2022 2023	BREAKWATER LEVEES
2026 2027	RANGE MARKER NO. 1 RANGE MARKER NO. 2
2030	RECREATION FACILITY
2033	WATER TANK POTABLE DIESEL FUEL TANK 6000GA
2034 2037	WEATHER SHELTER RF TEST EQUI
2041	RADAR FACILITY
2043	STORAGE BUILDING
2044	MESS FACILITY
2045	SATELLITE RECEIVING ANTENNA
2046	DIGITAL MICROWAVE TWR-SITE 2
2047 2048	STS INSTRUMENTATION BLDG SATELLITE RECEIVING ANTENNA
2048	GAZEBO
2050	ACQ RADAR TOWER
2003E	ROADS-CORAL SECURITY FENCE WATER DIST LINE (POT) ELECTRIC DISTR LINES POL DIESEL FUEL LINE OPEN STORAGE, SUPPLY SONOBUOY TRACKING SYSTEM GENERATOR BUILD 400 KW
2007P	WATER PUMP SHED



AUTEC Site 3

TONGUE OF THE OCEAN



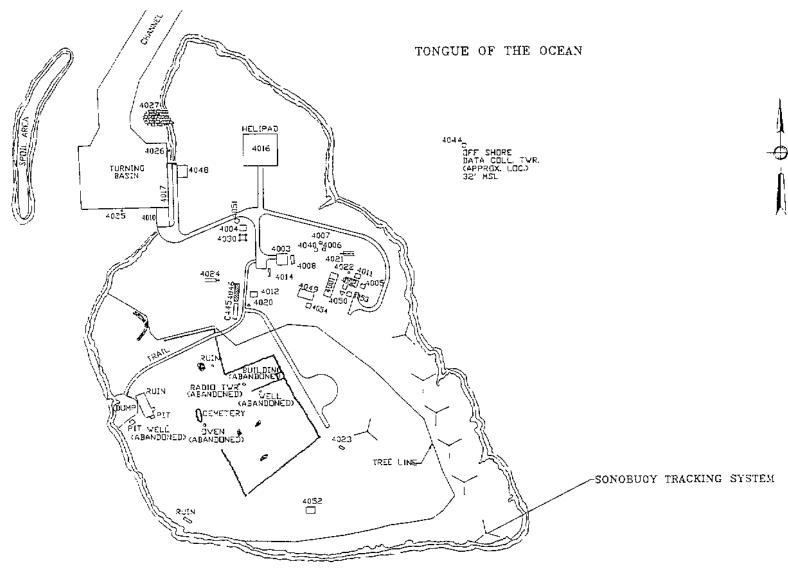
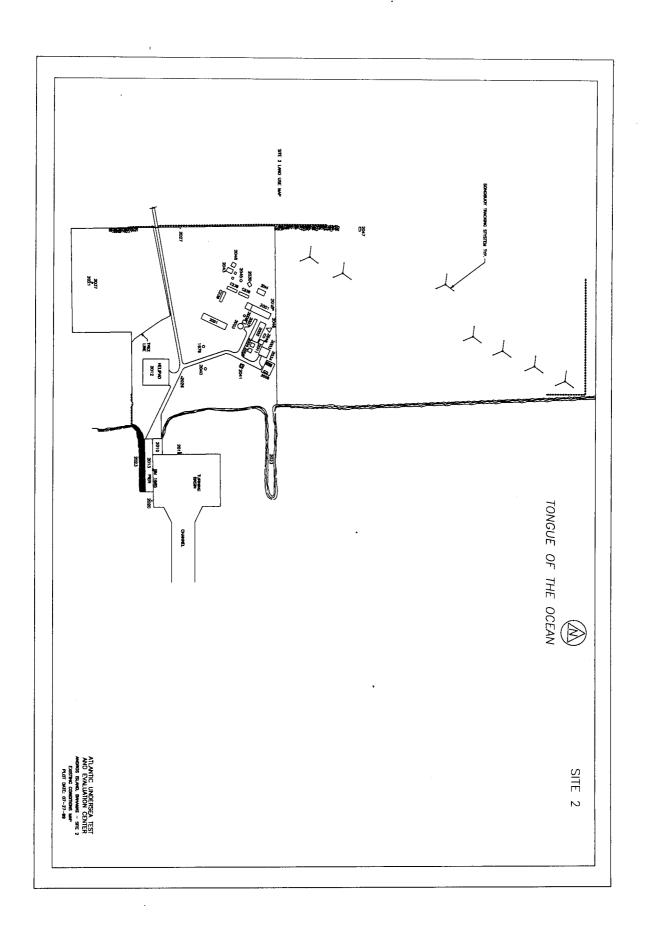
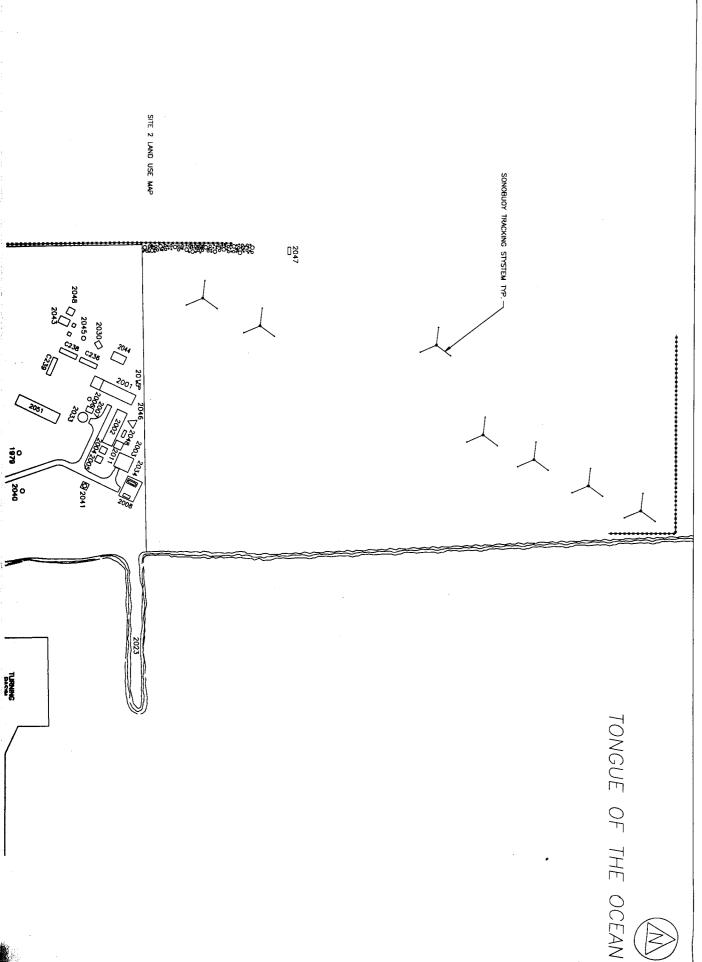


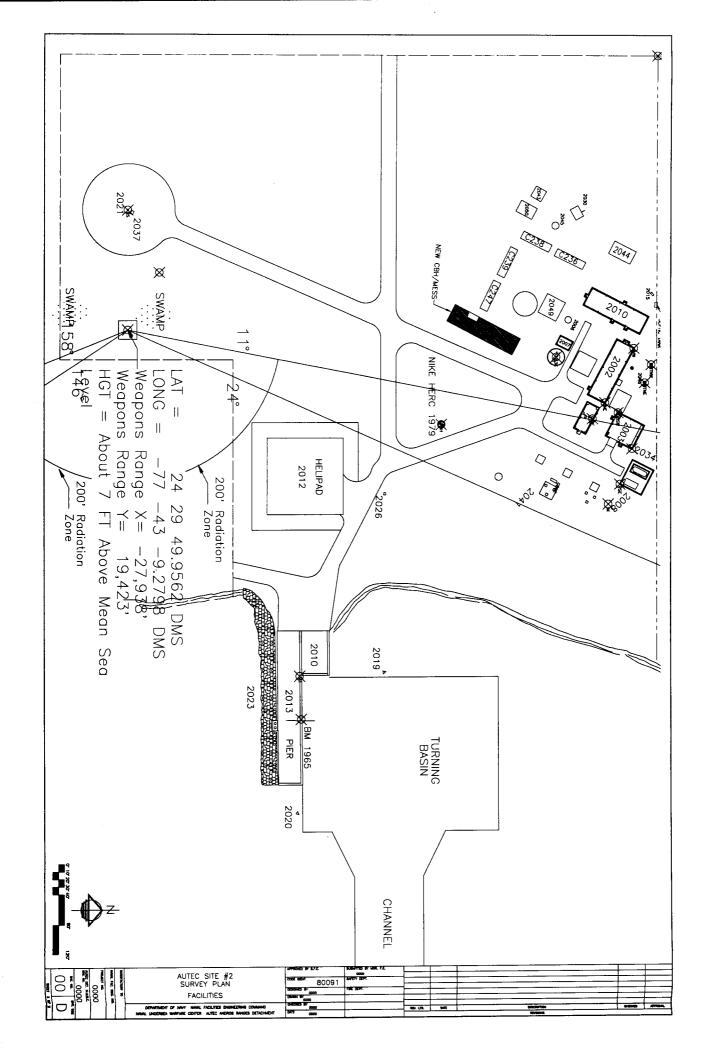
FIGURE C-5 NUWCDET AUTEC, ANDROS ISLAND, BAHAMAS, SITE 4

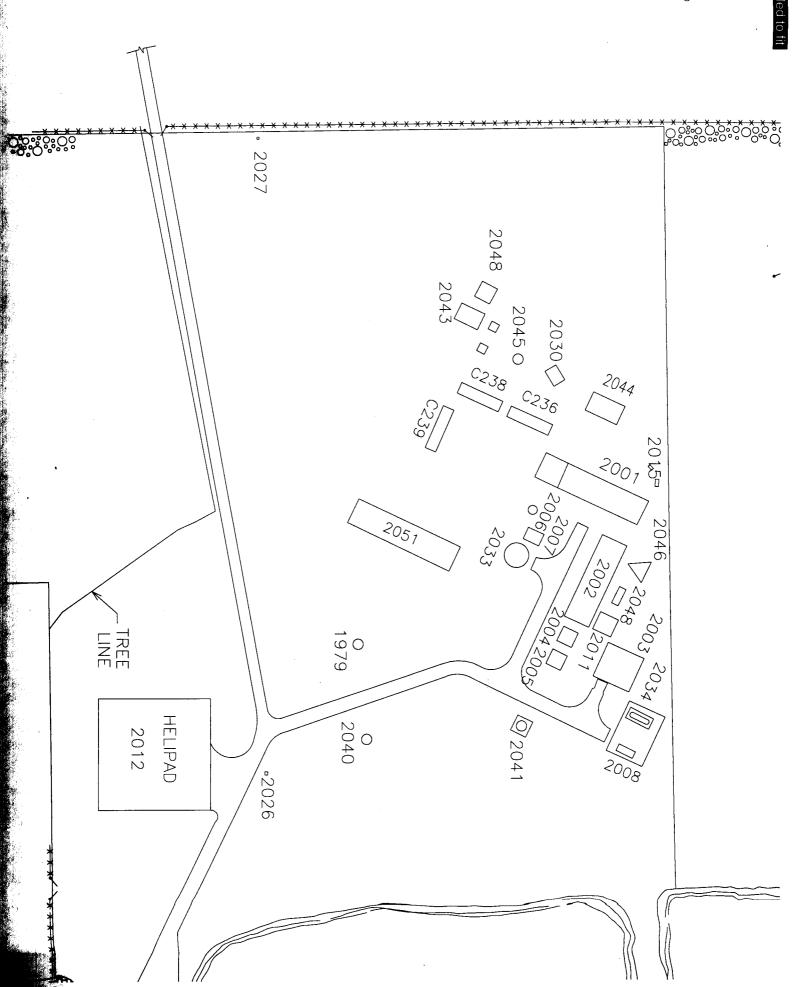
The drawings (of the AUTEC site) included as part of Appendix I to Attachment #5, are also posted in AUTOCAD Release:14 format on the NUWCDIVNPT WEB site http://www.npt.nuwc.navy.mil/contract/. You will require AUTOCAD Release:14, or an application that can read/import these files.

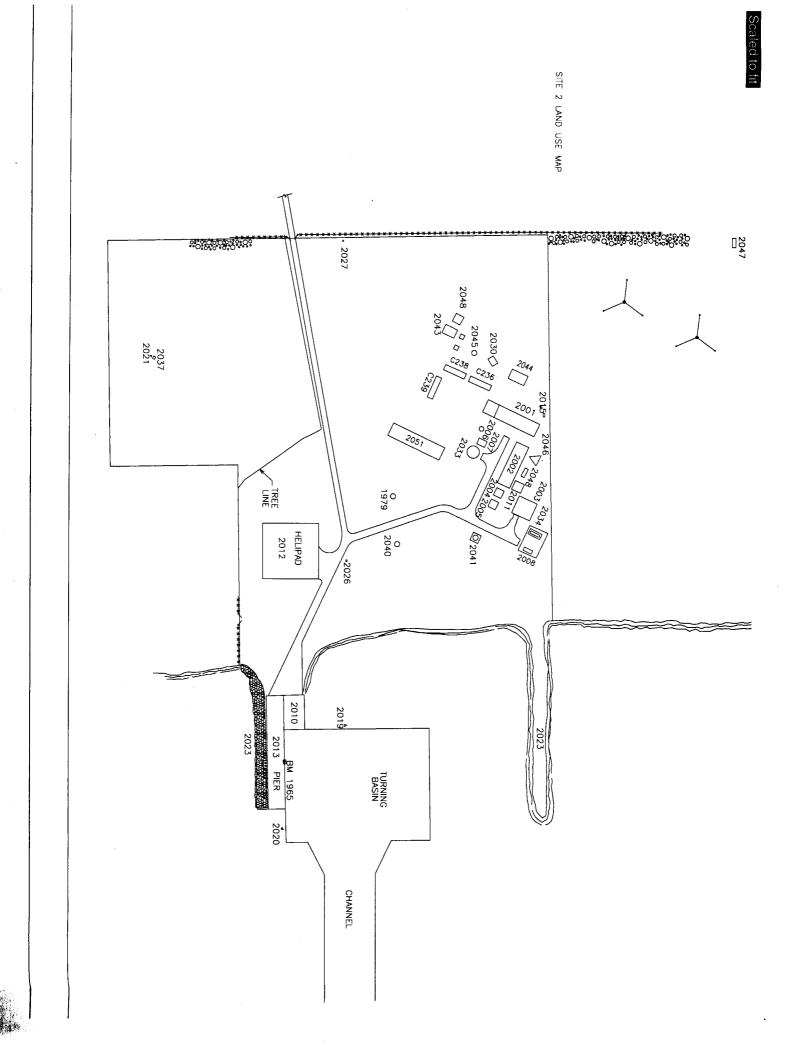


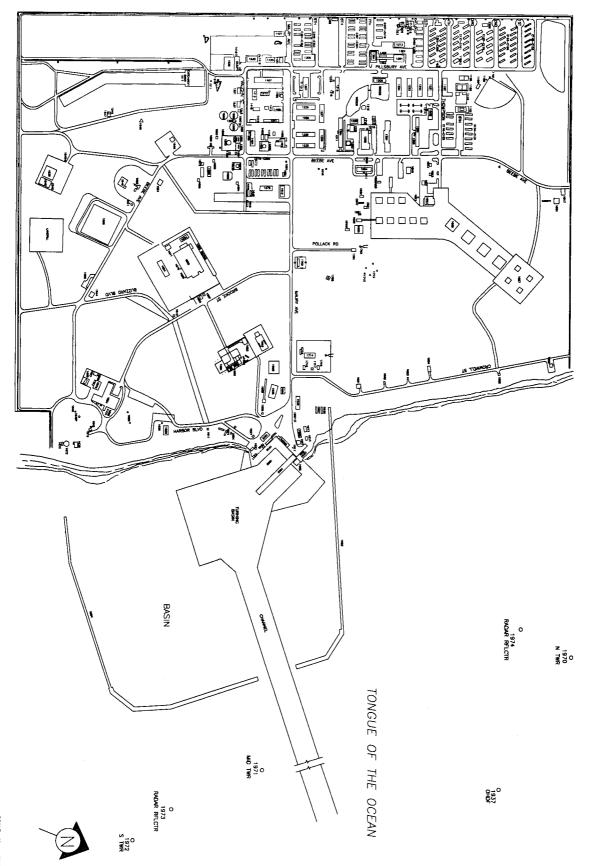






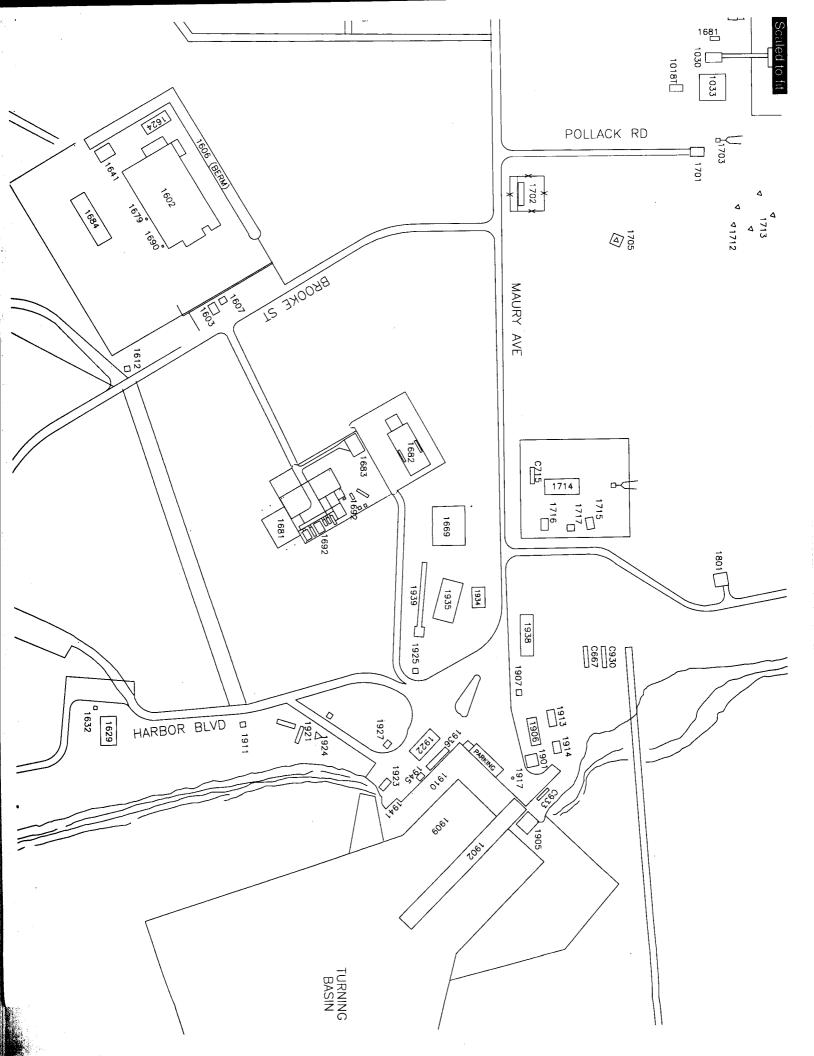


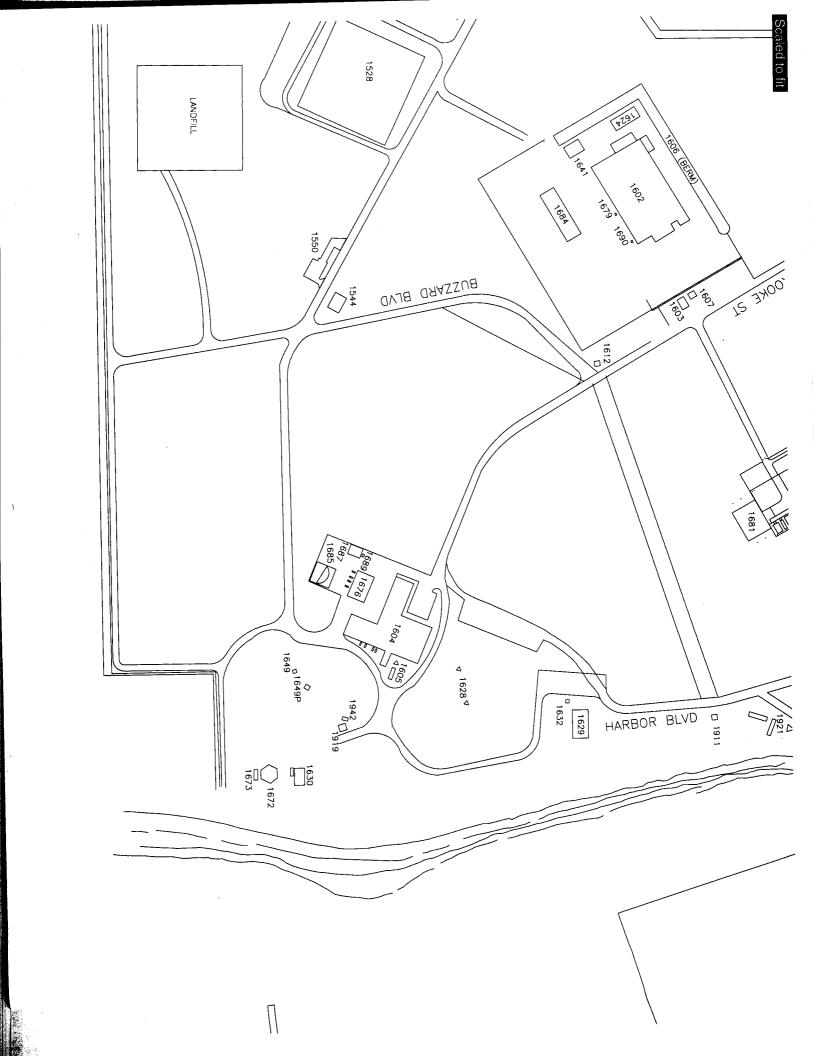


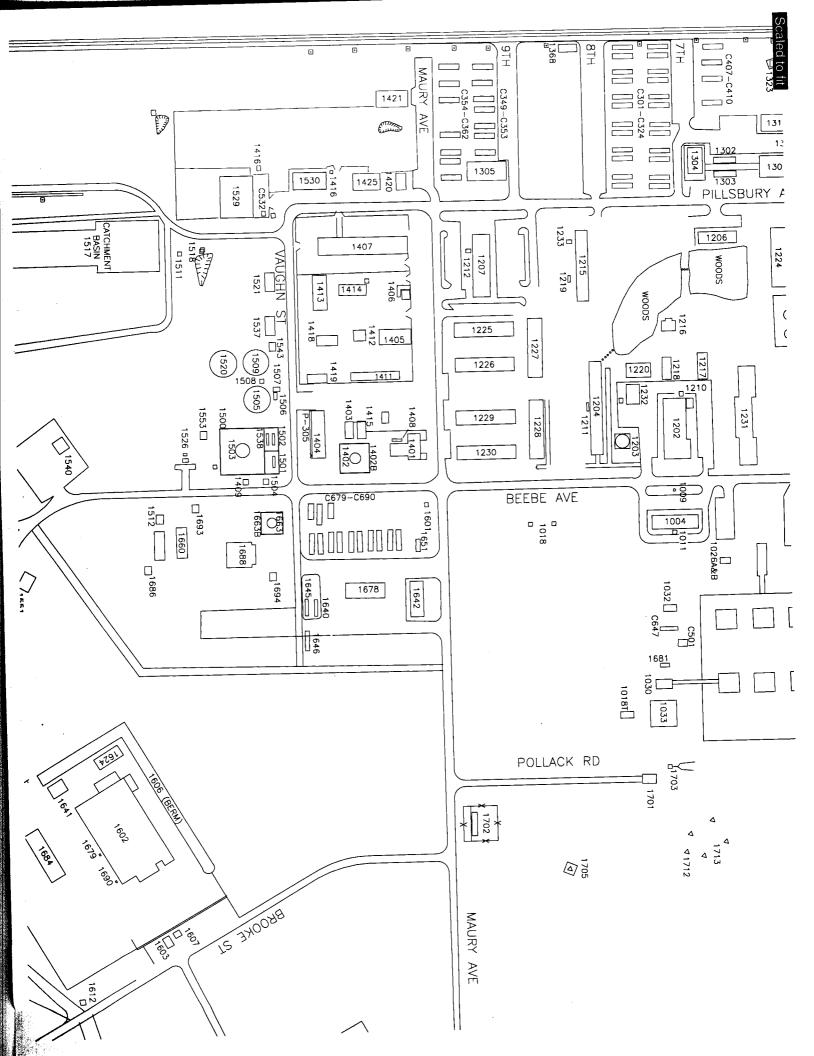


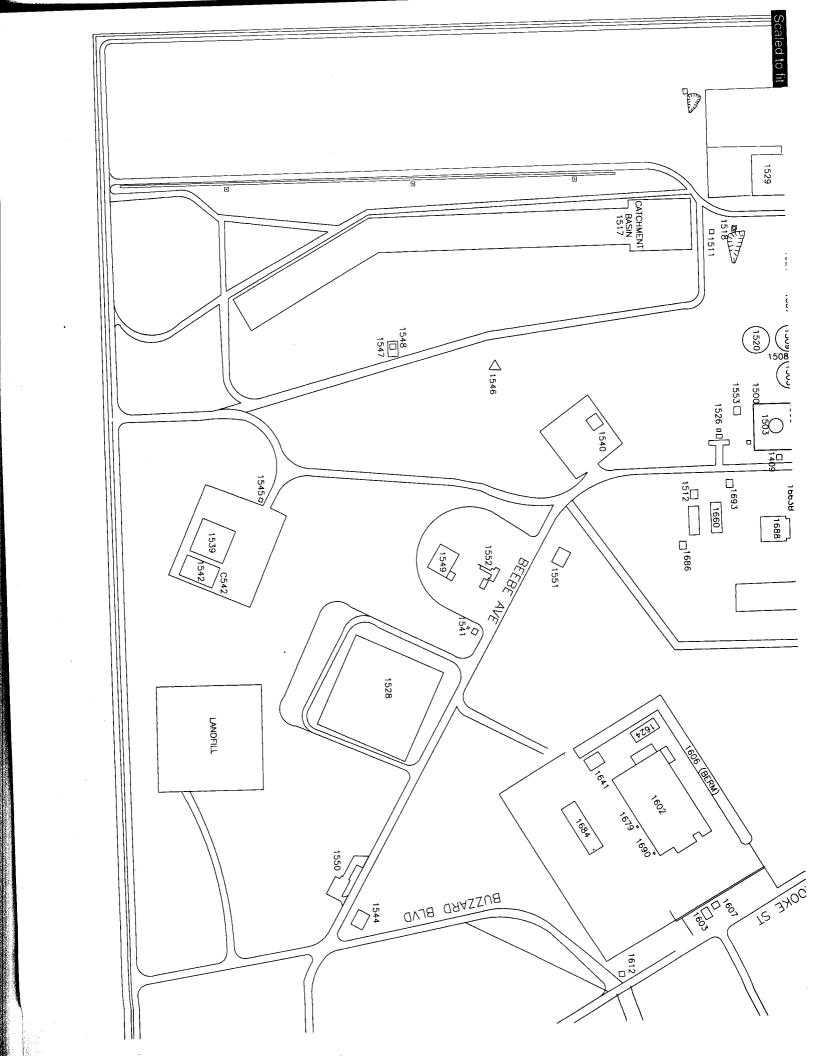
SCALE: 1" = 300"

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RF CHARACTERISTICS AUTEC THREAT SIMULATION (ESM) SYSTEM UNDER DEVELOPMENT

Antenna	Height fro	Frequency	Beam width	Gain	Input powe	Lowest Operatin	Lowest potentia	
width	ground	GHz	degrees	dB	dBm	degree	degree to	
							ground	
3.5 foot	60 feet	2	9	20	52	can be set	-5	
	+	4	4.6	26	53.8		-5	
		6	3	29.5	53.8		-5	
		8	2	32	53		-5	
3 foot	60 feet	8	2.7	30.5	54.5	can be set	-5	
		10	2.1	32.5	54.5		-5	
		12	1.6	34.1	54.5		-5	
		15	1	36	54.5		-5	
]		18	0.95	37.6	54.5		-5	

TABLE A-1. COMMUNICATIONS AND RADAR TRANSMITTERS

ldg.	Antenna Nomenclature	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter	HERO UNSAFE HER ORDNANCE	on Distance OSUSCEPTIBLE ORDNANCE (feet/meters)
003	TAD-1002B	Ground plane	2.1	115-156	25	Comco 727	66/20	13/4
	AS-390/SRC	Coaxial stub	2.1	225-400	10	AN/ARC-159(♥)	21/7	10/3
	DB-222	Collinear	8.1	138-150.5	10	EJF-239	70/21	15/5
	TAD-1002B	Folded coexial	2.1	136-174	25	MOT-L43TR	56/17	12/4
004	349	Dish	16.5	200-240	2	Unknown	87/27	23/7
015	DB-222	Collinear	5.1	115-156	25	Comco 727	94/29	19/6
	DB-222	Collinear	8.1	138-150.5	10	EJF-239	70/21	15/5
030	DC-113X4	Blade	2.1	225-400	10	AN/URC-200	21/7	10/3
368	N/A	5 element beam	10.1	144-148	50	Alinco DR-130T	188/57	41/13
3	N/A	Trapped dipole	2.1	2-30 1.8-30	100 100	Heathkit EW-10: ICOM IC-735	1 1146/349 1146/349	115/35 115/35
	N/A	3 element beam	8.0	14-30	100	ICOM IC-735	2261/688	186/57
405	TAD-1002B	Ground plane	2.1	136-174	25	MOT L43SU	56/17	12/4
546	NDB-35D	Dipole	2.1	.190535	250	NDB	195/59	10/3
547	AS-3184/URN	Dipole array	6	962-1215	400	AN/URN-25	77/23	38/12
602	AT-1047/U	Whip	2.1	2-30	125	SEA-222	1281/1390	128/39
	N/A	35 foot whip	2.1	2-30	100 1000	TW-7000 W/AM TW-7500	1146/349 3624/1103	115/35 362/110
	396-1	Whip	2.1	156-162	25	ICOM IC-125	49/15	11/3
	TAD-1002B	Groundplane	2.1	132-174	10	MOT H43	37/11	10/3
	AS-390/SRC	Coaxial stub	2.1	225-400	10	AN/ARC-159(V)	21/7	10/3
	AS-1739A-154	Stub	2.1	9250-9450	500	AN/DPN-78	10/3	10/3
OTH vans)	AT-1011/UR	Whip	2.1	2-30 30-32 >32-80 100-400	100 50 50 50	AN/URC-94	1146/349 810/247 332/101 108/33	115/35 42/13 40/12 20/6
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TABLE A-1. COMMUNICATIONS AND RADAR TRANSMITTERS (CONT.)

Bldg. <u>Location</u>	Antenna <u>Nomenclature</u>	Antenna Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	TransmitterType	IERO UNSAFE HERO ORDNANCE	n Distance D SUSCEPTIBLE ORDNANCE (feet/meters)
1604	DB-222	Collinear array	5.1	136-174	75	MOT C63CX	137/42	29/9
	DB-224	Collinear array	8.1	136-174	25	ICOM ICM-56	112/34	24/7
	NT-66095	Dipole	2.1	115-156 138-150.5	25 10	Comco 727 EJF-239	66/20 35/11	13/4 10/3
	Cableway 303740	Parbolic	40	7100-7800	1	Aydin S7AD	26/8	18/6
	AS-1729/VRC	Center-fed dipole	2.1	30-32 >32-90	10	AN/PRC-117B(C)	362/110 146/45	19/6 18/5
	AS-390/SRC	Coaxial stub	2.1	225-400	100	AN/WSC-3(V)6	68/21	18/5
	AS-390/SRC	Coaxial stub	2.1	225-400	20	AN/GRC-171	30/9	10/3
	N/A	Dipole	2.1	2-30	125	Kenwood TS-9408	1281/390	128/39
1625	AS-390/SRC	Coaxial stub	2.1	225-400	20	AN/GRC-171	30/9	10/3
	349	Dish	16.5	200-240	2	Unknown	87/27	23/7
	AS-390/SRC	Coaxial stub	2.1	225-400	100	AN/WSC-3	68/21	18/5
	TAD-1002B	Groundplane	2.1	136-174	20	WSAT	50/15	11/3
1634,2002, 3002,7002	, SHF	Dish-2M	40.3	7100-7500	1	AYDIN S7AD	26/8	18/6
1685	SHF	Dish-10M	52.0	6237	15	SHF	458/139	324/99
1701	N/A	Center-fed dipole	2.1	2-30	125 1000 100	Kenwood TS-940S Amp-Henry 8K Sunair RT-9000	1281/390 3624/1103 1146/349	128/39 362/110 115/35
	N/A	End-fed dipole	2.1	2-30	125 1000 100	Kenwood TS-940S Amp-Henry 8K Sunsir RT-9000	1281/390 3624/1103 1146/349	128/39 362/110 115/35
	N/A	Inverted "V" loop	2.1	2-30	125 1000 100	Kenwood TS-940S Amp-Henry 8K Sunair RT-9000	1281/390 3624/1103 1146/349	128/39 362/110 115/35
	N/A	End-fed dipole	2.1	2-30	125 1000 100	Kenwood TS-940S Amp-Henry 8K Sunair RT-9000	1281/390 3624/1103 1146/349	128/39 362/110 115/35
	N/A	Long wire	2.1	2-30	125 1000 100	Kenwood TS-940S Amp-Henry 8K Sunair RT-9000	1281/390 3624/1103 1146/349	128/39 362/110 115/35
	N/A	Loop	2.1	2-30	100	Sunair RT-9000	1146/349	115/35

TABLE A-1. COMMUNICATIONS AND RADAR TRANSMITTERS (CONT.)

ldg.	Antenna Nomenclatur	Antenna Ee Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter Type	HERO UNSAFE HERO ORDNANCE	Distance DSUSCEPTIBLE ORDNANCE (feet/meters)
806	AS-390/SRC	Coaxial stub	2.1	225-400	10	AN/GRT-22	22/7	10/3
					50	AM-6155	48/15	13/4
	AS-390/SRC	Coaxial stub	2.1	225-400	50	AN/GRC-171(V)	48/15	13/4
	NT-66095	Dipole	2.1	116-152	25	AN/GRC-211	66/20	13/4
	TAD-1002B	Groundplane	2.1	136-174	110	MOT C73RC	118/36	25/8
	TAD-1002B	Groundplane	2.1	138-174	60 .	AN/FRC-166	90/27	19/6
	DB-224	Collinear	8.1	138-174	100	AN/FRC-166	221/67	48/15
	DB-222	Colinear	5.1	132-174	75	MOT C63CX	142/43	30/9
	TAD-1002B	Groundplane	2.1	136-174	60	MOT C53	87/26	19/6
913	396-1	Whip	2.1	156-162	25	ICOM ICM-25D	49/15	11/3
922	STYLE-222	35 foot whip	2.1	1.6-30	125	SEA-222	1281/390	128/39
·	396-1	Whip	2.1	156-162	25	ICOM M-80	49/15	11/3
935	STYLE-222	35 foot whip	2.1	1.6-30	125	SEA-222	1281/390	128/39
- -	TAD-1002B	Folded Coax	2.1	132-174	10 ^{/*}	MOT H43	37/11	10/3
	AS-390/SRC	Coaxial stub	2.1	225-400	10	AN/ARC-159(V)	22/7	10/3
	AS-1729/VRC	Centerfed dipole	2.1	30-32 >32-90	10	AN/PRC-117B(C)	362/110 146/45	19/6 18/5
	AS-390/SRC	Coaxial stub	2.1	225-400	10	AN/GRT-22	22/7	10/3
821	N/A	Parabolic	29	8500-9600	6	RTR	15/6	11/3
EQ-408A	N/A	Center-fed dipole	2.1	102.1	15	PANCOM-MOD FM-15S	58/18	11/3
-170	N/A	Trapped dipole	2.1	1.6-30	100	ICM-IC 761	1146/349	115/35
-196	N/A	Dipole	2.1	1.6-30	100	YEASU FT-767G	1146/349	115/35

TABLE A-1. COMMUNICATIONS AND RADAR TRANSMITTERS (CONT.)

Bldg./ Location	Antenna Nomenclate	Antenna Type	Antenna 'Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter	IERO UNSAFE HE ORDNANCE	On Distance ORDNANCE (feet/meters)
••				RANGE SITE	NUMBER 2			
	N/A	Long wire	2.1	2-30	125	KEN-TS-430	1281/390	128/39
	AS-390/SRC	Coaxial stub	2.1	225-400	10	AN/GRT-22	22/7	10/3
	AS-390/SRC	Coaxial stub	2.1	225-400	10	AN/GRC-171(V)	22/7	10/3
	N/A	Parabolic	29	8500-9600	6	RTR	15/6	11/3
	TAD-1002B	Folded Coax	2.1	136-174	25	MOT	56/17	12/4
	SHF	Dish-2M	40.3	7100-7500	1	AYDIN S7AD	26/8	18/6
-	N/A	Pillbox reflector	36	3100-3500	650	Nike Acquisitio	n 961/293	680/208
	N/A	Parabolic	44	8500-9600	89	Track radar	326/99	230/70
	N/A	Parabolic	34	8500-9600	1 mW	Boresite tower	15/5	10/3
				RANGE SITE	NUMBER 3			
	N/A	Long wire	2.1	2-30	° 125	KEN-TS-430	1281/390	128/39
	AS-390/SRC	Coaxial stub	2.1	225-400	10	AN/GRT-22	22/7	10/3
	AS-390/SRC	Coaxial stub	2.1	225-400	10	AN/GRC-171(V)	22/7	10/3
	N/A	Parabolic	29	8500-9600	6	RTR	15/6	11/3
	TAD-1002B	Folded Coax	2.1	136-174	25	MOT	56/17	12/4
	N/A	Collinear array	8.1	136-174	110	MOT T73	235/72	50/15
	SHF	Dish-2M	40.3	7100-7500	1	AYDIN S7AD	26/8	18/6
	N/A	Pillbox reflector	36	3100-3500	650	Nike Acquisitio	n 961/293	680/208
	N/A	Parabolic	44	8500-9600	89	Track radar	326/99	230/70
4	N/A	Parabolic	34	8500-9600	1 mW	Boresite tower	15/5	10/3

TABLE A-1. COMMUNICATIONS AND RADAR TRANSMITTERS (CONT.)

31dg./	Antenna <u>Nomenclatur</u>	Antenna re Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter	HERO UNSAFE HE ORDNANCE	on Distance RO SUSCEPTIBLE ORDNANCE (feet/meters)
				RANGE SITE	NUMBER 4			
	N/A	Long wire	2.1	2-30	125	KEN-TS-430	1281/390	128/39
	AS-390/SRC	Coaxial stub	2.1	225-400	10	AN/GRT-22	22/7	10/3
	AS~390/SRC	Coaxial stub	2.1	225-400	10	AN/GRC-171(V)	22/7	10/3
•	TAD-1002B	Folded Coax	2.1	136-174	25	MOT	56/17	12/4
	N/A	Collinear array	8.1	136-174	110	MOT T73	235/72	50/15
	NT-66095	Dipole	2.1	116-150	40	AN/GRC-211	83/25	17/5
	SHF	Dish-2M	40.3	7100-7500	1	AYDIN S7AD	26/8	18/6
	N/A	Pillbox reflector	36	3100-3500	650	Nike Acquisiti	on 961/293	680/208
	N/A	Parabolic	44	8500-9600	89	Track radar	326/99	230/70
	N/A	Parabolic	34	8500-9600	1 mW	Boresite tower	15/5	10/3
				MOBILE TRAN	ISMITTERS			
∛ V Ranger	N/A	Long wire	2.1	1.6-30	125	SEA-222	1281/390	128/39
	396-1	Whip	2.1	156-162 156-162	25 25	ICOM IC-125 ICOM M-100	49/15 49/15	11/3 11/3
	AS-390/SRC	Coaxial stub	2.1	225-400	10	AN/ARC-159(V)	22/7	10/3
	TAD-1002B	Folded Coax	2.1	132-174	10	MOT H43	37/11	10/3
	AS-1739A-154(\	V) Stub	2.1	9250-9450	32	AN/DPN-78	10/3	10/3
	N/A	Slotted array	27.5	9380-9440	6.3	RAY-R-73	12/4	10/3
- 4 	N/A	Slotted array	27.5	9380-9440	6.3	RAY-R-82X	12/4	10/3
	396-1	Whip	2.1	136-174	50	TM-241A-XBT	79/24	17/5
langer	AT-1047/U	Whip	2.1	1.6-30	125	SEA-222	1281/390	128/39
daster	396-1	Whip	2.1	156-162	25	ICOM IC-125	49/15	11/3
	AS-390/SRC	Coaxial stub	2.1	225-400	10	AN/ARC-159(V)	22/7	10/3
	TAD-1002B	Folded coax	2.1	132-174	10	MOT H43	37/11	10/3
	AS-1739A-154 (\	V) Stub	2.1	9250-9450	32	AN/DPN-78	10/3	10/3
	N/A	Slotted array	27.5	9380-9440	3.5	RAY-R-41	10/3	10/3
	396-1	Whip	2.1	136-174	50	TM-241A	79/24	17/5
	N/A	Whip	2.1	136-174	10	TM-241A/SRT-22	36/11	10/3

TABLE A-1. COMMUNICATIONS AND RADAR TRANSMITTERS (CONT.)

Bldg./ Location	Antenna <u>Nomenclatur</u>	Antenna e Type	Antenna Gain (dBi)	Transmitter Frequency (MHz)	Transmitter Power (watts)	Transmitter Type	HERO UNSAFE HE ORDNANCE	on Distance CO SUSCEPTIBLE ORDNANCE (feet/meters)
			<u>M</u>	OBILE TRANSMIT	ITERS (cont.)			
Ranger	N/A	Long wire	2.1	1.6-30	125	SEA-222	1281/390	128/39
Rover	396-1	Whip	2.1	156-162	25	ICOM IC-125	49/15	11/3
	AS-390/SRC	Coaxial stub	2.1	225-400	10	AN/ARC-159(V)	22/7	10/3
	TAD-1002B	Folded Coax	2.1	132-174	10	MOT H43	37/11	10/3
	AS-1739A-154(V	7) Stub	2.1	9250-9450	32	AN/DPN-78	10/3	10/3
	N/A	Slotted array	27.5	9380-9440	6.3	RAY-R-73	12/4	10/3
	N/A	Slotted array	27.5	9380-9440	6.3	RAY-R-82X	12/4	10/3
	396-1	Whip	2.1	136-174	50	TM-241A	79/24	17/5
LCM-75	AT-1047/U	Whip	2.1	1.6-30	125	SEA-222	1281/390	128/39
	396-1	Whip	2.1	156-162	25	ICOM IC-125	49/15	11/3
	N/A	Slotted array	27.5	9380-9440	6.3	RAY-R-73	12/4	10/3
AUTEC-4	AT-1047/U	Whip	2.1	1.6-30	125	SEA-222	1281/390	128/39
	396-1	Whip	2.1	156-162	25	ICOM IC-125	49/15	11/3
	N/A	Slotted array	27.5	9380-9440	1.92	FURUNO 1940	10/3	10/3
				HANDHELD TRA	ANSMITTERS			
	N/A	Whip	2.1	132-148	1	KEN-KRK-2	12/4	10/3
	N/A	Whip	2.1	132-148	5	ICOM-IC200A	26/8	10/3
	N/A	Stub	0.9	136-174	5	мот назнм	22/7	10/3
•	N/A	Stub	0.9	136-174	6	MOT H43YB	24/7	10/3

AUTEC MICROWAVE INTERFACE INFORMATION

Interfaces into the Timeplex TDM Multiplexer are as follows:

- RS-232
- MIL-STD-188-114
- RS-530
- RS-422
- RS-423
- RS-449
- V.35
- D.24 (unbalanced)

Asynchronous, Synchronous, Isochronous and Plesiochronous interfaces are supported. Speeds range from 50bps to 1.536Mbps

DS-1/T-1 Interface into the microwave DS-3 MULDEM is:

• DS-1 Compatible w/DSX-1 interface spec TA-34

• Data Rate 1.544Mb/s

• Line Code AMI or B8ZS (selectable)

• Line Impedance 100 ohms

The digital microwave network also provides ETHERNet Connectivity to all remote locations.

Transponder Manufacturers

Mnemonic	Manufacturer	
AEI	Avion Electronics Inc	
AGA	Aero Geo Astro	
AV	Audin Vector	
CC	Cubic Corp.	
CSC	Control Science Corp.	
GD	General Dunamics	•
нп	Herleu Industries Inc.	
HMS	Herleu Microwave Sustems	
HVS	Herleu Veaa Sustems	
MA	Microwave Associates	
MI	Motorola Inc.	
VPL	Veaa Precision Labs	

Base Name: White Sands Missile Range

Range D#: 1

Base Abbreviation: WSMR

Model #	Part #	Manufacturer	Good Units	Bad Units	Questionable Units	Comments
	303530-1	VPL	?			
349C-6	550010-1	HVS	11			
302C-5		VPL		1		
MD401C	500003-1	нп	4	1		
302C-14		VPL	?	1		
MD400C-1	500002-1	HII	7			Located at Holloman
MD50C-1	5400025-1	HII	10_			Located at Holloman
MD400C-1	500002-1	HII	6	1	1	
MD50C-1	5400025-1	ни	11			
MD50C-5	500001-11S	ни	32			
302C-2	300360-1	VPL		9	1	4 units modified
349C-1	402246-1	VPL		1		Needs parts
302C-3A	405462-1	VPL	7	17		Needs parts
380C-1		HVS	53			

Base Name: White Sands Missile Range

Base Abbreviation: WSMR

Model #	Part #	Manufacturer	Good Units	Bad Units	Questionable Units	Comments	Att
207C-1R	F19650-69-C-0503	VPL		7		Needs oscillators & p	
366C-2	405069-2	VPL		3		Needs parts	
156C		AEI	1			Located at Holloman	
302C-2	300360-1	VPL	5	6		Located at Holloman	
302C-3	404993-1	VPL	4	4		Located at Holloman	
302C-3A	405462-1	VPL	11	7		Located at Holloman	
366C-2	405069-2	VPL	1			Located at Holloman	
380C-1		HVS	4	1		Located at Holloman	
SST171C	01-22920F-07	MI	· 1	3		Located at Holloman	
202C-6		VPL	4	· · · · · · · · · · · · · · · · · · ·			
315X		VPL	3				
302C-3	404993-1	VPL		1		Needs video board	

Base Name: Vandenberg AFB

Range **D#**: 2

Base Abbreviation: VAFB

Part #	Manufacturer	Good Units	Bad Units	Questionable Units	Comments	At A
	MI	1	11			
01-22920F-07	MI	3				
500002-1	HII	2				
	VPL	1				
406760	VPL	1				
411001G	VPL	1				
	MI	1				
300360-1	VPL	14	3			
405462-1	VPL	1				
	01-22920F-07 500002-1 406760 411001G	MI 01-22920F-07 MI 500002-1 HII VPL 406760 VPL 411001G VPL MI 300360-1 VPL	Part # Manufacturer Units MI 1 01-22920F-07 MI 3 500002-1 HII 2 VPL 1 406760 VPL 1 411001G VPL 1 MI 1 300360-1 VPL 14	Part # Manufacturer Units Units MI 1 1 01-22920F-07 MI 3 500002-1 HII 2 VPL 1 406760 VPL 1 411001G VPL 1 MI 1 300360-1 VPL 14 3	Part # Manufacturer Units Units Units MI 1 1 01-22920F-07 MI 3 500002-1 HII 2 VPL 1 406760 VPL 1 411001G VPL 1 MI 1 300360-1 VPL 14 3	Manufacturer Units Units Units Comments

Base Name: Eglin AFB

Base Abbreviation: EAFB

Model #	Part #	Manufacturer	Good Units	Bad Units	Questionable Units	Comments	Att
321C	210037-1	VPL	2				
302C-3A	405462-1	VPL	2		·		
302C-2	300360-1	VPL	1				
MD401C-1		HVS	13				
302C-26		VPL	58	70			
322K		VPL	12				
SST171C	01-22920F-07	MI	27				
AN/DPN-66 "C"	01-22954A-05	MI	18				·
SST181XE	01-20068A-18	MI	14				
319X-9	303485-1	VPL	7_				
312S		VPL	4	·			
MD400C-1	500002-1	HVS	27				
SST181X	01-22980F-16	MI	3	·			
CSC-311		CSC	2				

Baso Name: Naval Undersea Warfare Center

Range **D#**: 4

Base Abbreviation: AUTEC

Model #	Part #	Manufacturer	Good Units	Bad Units	Questionable Units	Comments	Att
AN/DPN-78 "X		VPL	42				
306X		VPL	11		—— 	Being modified locall	
315X		VPL	5			Being modified locall	
AN/DPN-78 "X	-11	VPL	3			Being modified locall	
315X	·	VPL	7			Modified locally for H	
AN/DPN-78 "X	711	VPL	24			Modified locally for H	

Bass Name: NASA/Goddard Space Flight Center/Wallops Flight Facil Range D#: 5

Base Abbreviation: NASA-WFF/CSC

Model #	Part #	Manufacturer	Good Units	Bad Units	Questionable Units	Comments	Att
MD50C-1	5400025-1	ни	5	2			
MD400C-1	500002-3	HII	1				
302C-3A	405462-1	VPL	2	1			
AV50C-1	27342000-504	AV	13	1			
	303530-1	VPL		1_			
302C-2	300360-1	VPL		4			

Base Name: Naval Air Warfare Center-Aircraft Division, Patuxent Riv Range D#: 6

Base Abbreviation: NAWC-Patuxent River

Model #	Part #	Manufacturer	Good Units	Bad Units	Questionable Units	Comments		At
RT-1203/D "C"		VPL			4			
228C-6		VPL			1			
229X-1		VPL			1			
302C-2	300360-1	VPL			39			
302C-2M		VPL			4			
302C-3A	405462-1	VPL			33			
302C		VPL			1			
319X-9	303485-1	VPL			47		·	
228C	402146-1	VPL			1			
MD50C-1	5400025-1	HII			2			
SST171C	01-22920F-07	MI			4			
SST181XE	01-20068A-18	MI			2			
306C	411001G	VPL			4			
319X-12		VPL			2			

Base Name: Naval Air Warfare Center-Aircraft Division, Patuxent Riv Range D#: 6 Base Abbreviation: NAWC-Patuxent River

Model #	Part #	Manufacturer	Good Units	Bad Units	Questionable Units	Comments	Atta
319X-9	303485-1	VPL			2	Modified	
321C	210037-1	VPL	·		2		
366C		VPL			2		
AN/DPN-90(V1) "C"	408791-1	VPL			24		
AN/DPN-90(V2) "X"	408792-1	VPL			30		
366C-2	405069-2	VPL			2		

Base Name: SPAWAR Systems Center

Range D#: 7

Base Abbreviation: SPAWAR

Model #	Part #	Manufacturer	Good Units	Bad Units	Questionable Units	Comments	Atta
SST171C	01-22920F-07	MI	1				
319X-9	303485-1	VPL	5				
319X-11	303815-1	VPL	. 1				
302C-2	300360-1	VPL	5				

Base Name: Naval Air Warfare Center-Weapons Division, China Lake Range D#: 8

Base Abbreviation: NAWC-China Lake

Model #	Part #	Manufacturer	Good Units	Bad Units	Questionable Units	Comments	Att
319X-11	303815-1	VPL	1	1			
302C-2	300360-1	VPL	7	1			
349C-1	402246-1	VPL		1	· · · · · · · · · · · · · · · · · · ·		
366C-2	405069-2	VPL	1				
MD400C		VPL	4				
MD50C-1	5400025-1	VPL	1				
RT-366/G "C"		VPL	7	1			
RT-1203/D "C"		VPL	3				
SST171C	01-22920F-07	MI	1				
CSC-310 "S"		CSC	1				
302C		VPL	8	3			
319X		VPL	14	3	1		
321C	210037-1	VPL	4				
AN/DPN-90(V2) "X"	1356AS3020-2	HII	4	1			

Base Name: Naval Air Warfare Center-Weapons Division, China Lake Range D#: 8

Bass Abbreviation: NAWC-China Lake

Model #	Part #	Manufacturer	Good Units	Bad Units	Questionable Units	Comments	 Atta
RT-763/D "X"		VPL	11				
306C	411001G	VPL	3				
306X		VPL	1				
319X-9	303485-1	VPL	7	3			
AN/DPN-90(V1) "C"	408791-1	VPL	10	4			
AN/DPN-90(V2) "X"	408792-1	VPL	8	6	.3		
AN/DPN-77 "C"		VPL	9				
207C	300589G-1	VPL	. 1				
MD400C-1	500002-1	HII	1				
121X	• •	VPL		1			

Base Name: Naval Air Warfare Center-Weapons Division, Point Mugu Range D#: 9

Base Abbreviation: NAWC-Point Mugu

Model #	Part #	Manufacturer	Good Units	Bad Units	Questionable Units	Comments	A
AN/DPN-78 "X"		VPL	2				
SST181X	01-22980F-16	MI	6				
AN/DPN-90(V1) "C"	1356AS3020-1	нп	20				
AN/DPN-90(V2) "X"	1356AS3020-2	нп	2				
316-L	404627-1	VPL	2				
AN/DPN-88 "L"	403790-1	VPL	4				
AN/DPN-77 "C"		VPL	8				
1203	·	VPL	2				
366		VPL	30				
321C	210037-1	VPL	5				
302C		VPL	50				

Base Name: Kwajalein Missile Range

Range **D#**: 10

Basa Abbreviation: KMR

Model #	Part #	Manufacturer	Good Units	Bad Units	Questionable Units	Comments	 Atta
302C		VPL	2	~			_
228C	402146-1	VPL	2				_

Base Name: Utah Test and Training Range

Base Abbreviation: UTTR

Model #	Part #	Manufacturer	Good Units	Bad Units	Questionable Units	Comments	Atta
366C		VPL	1				
302C-2	300360-1	VPL	8				
149000-10X		GD	35				
145550-1		cc	41				
SST171C	01-22920F-07	MI	6				

Bass Name: Edwards AFB - Nellis AFB Ranges

Base Abbreviation: EAFB/AFFTC/Nellis Ranges

Model #	Part #	Manufacturer	Good Units	Bad Units	Questionable Units	Comments	Att
228C-1		VPL	2				
MD400C-1	500002-1	ни	3	··· ···			
302C-19		VPL	5	5			
206S		VPL		···.	2		
366C-2	405069-2	VPL	2				
AN/DPN-90(V2) "X"	1356AS3020-2	HII	9	1			
SST201X	01-P04871A001	MI			4		
306C	411001G	VPL	2				
AN/DPN-76		AGA			1		
319X-9	303485-1	VPL	16	3			
302C-2	300360-1	VPL	25		2		
SST181XE	01-20068A-18	MI	5		1		
SST181X	01-22980F-16	MI	31	8			
SST171C	01-22920F-07	MI	33	1			

Base Name: Edwards AFB - Nellis AFB Ranges

Range **D#**: 13

Base Abbreviation: EAFB/AFFTC/Nellis Ranges

Model #	Part #	Manufacturer	Good Units	Bad Units	Questionable Units	Comments	Attac
SST131C	01-21401B-07	MI		1		Needs local oscillator	
AN/DPN-90(V1) "C"	1356AS3020-1	HII	17	1			

Base Name: Fort Huachuca

Range **D#**: 14

Base Abbreviation: US Army WSMR-EPG

Model #	Part #	Manufacturer	Good Units	Bad Units	Questionable Units	Comments	
MD401C	500003-1	HII	9		·		
MD50C	500001-1	ни	2				
302C		VPL	2				
349C		VPL	8				
SST171C	01-22920F-07	MI	31				

Basa Name: Edwards AFB

Base Abbreviation EAFB

Model #	Part #	Manufacturer	Good Units	Bad Units	Questionable Units	Comments	Att
321C	210037-1	VPL		1			
SST181XE	01-20068A-18	MI	3	5	7444		
SST181X	01-22980F-16	MI	9	6			
AN/DPN-77 "C"		MI	3				
AN/DPN-66 "C"	01-22954A-05	MI	3	3	· P. F. C		
WSMR "C"	01-22920F-07	MI	2	3			
SST171C	01-22920F-08	MI	8	3			
MD400X-1	500004-1	HII	2				
MD400C-1	500002-1	HII	16	9			
AN/DPN-90(V1) "C"	1356AS3020-1	HII	12				
366C-2	405069-2	VPL	2_				
319X-9	303485-1	VPL	5_				
380C	307364-1	VPL	3				
302C-2	300360-1	VPL	125	34			

Base Name: Yuma Proving Ground

Range **D#**: 17

Base Abbreviation: YPG

Model #	Part #	Manufacturer	Good Units	Bad Units	Questionable Units	Comments	 Atta
366C		VPL	1				
302C-3	404993-1	VPL	1				
AN/DPN-90(V1) "C"	408791-1	VPL	3_				
MD50C	5400025-1	нмѕ	6				
366C-2	405069-2	VPL	3	11			
MD50C-1	5000001	HMS	10	2			

JA4 CONTRACT ADMINISTRATION MASTER PLAN (CAMP)

Naval Undersea Warfare Center Division, Newport Contract Administration Master Plan No. 94-1

Subj: CONTRACT ADMINISTRATION MASTER PLAN (CAMP) FOR CONTRACTOR SUPPORT OR CONTRACTOR ENGINEERING AND TECHNICAL SERVICES

Ref: (a) NAVSUPINST 4330.7 Service Contract Administration

- 1. This Master Plan covers services that the Procuring Contracting Officer(PCO) determines shall be obtained on a Cost Plus Fixed Fee, Labor Hour, or Time and Material basis which are contracted for with a performance oriented statement of work (SOW). For those actions not covered under this Master Plan, a separate Contract Administration Plan (CAP) will be generated by the PCO. The contract specifications will cover performance of technically complex work which will involve intensive quality assurance surveillance and cost and performance monitoring by technical or engineering specialists within NUWCDIVNPT Technical and Business Departments. Performance of some of the contract administration functions solely by the Defense Contract Management Command (DCMC) is not practical. Therefore, the contract administration functions will be delegated to a Contracting Officer's Representative (COR) to assist the PCO in administration of the subject class of contracts and any delivery orders issued under the contract.
- 2. Contracting Officer's Representative (COR) duties are detailed in Enclosure 1. Only those individuals who have received COR training and possess the requisite technical skills and experience to effectively monitor the subject services will be appointed CORs under this plan. The Commercial Acquisition Department, Code 59, has the responsibility to ensure that personnel appointed as CORs to perform duties in connection with contracts subject to this plan have the necessary qualifications to satisfactorily perform required duties, and are properly monitored to determine they are performing assigned duties. If at any time Code 59 determines assigned duties are not being performed in a satisfactory manner, Code 59 shall take immediate action to advise the respective Department Head so that corrective action (including replacement of personnel, if required) may be taken.
- 3. A copy of each delegation and rescission of delegation made pursuant to paragraphs 1 and 2 of this plan shall be made a part of the contract files. The Contract must indicate the specific COR responsible for administering services under the particular contract.

COR RESPONSIBILITIES

The COR acts as the representative for the Contracting Officer by performing the following duties:

- a. Monitors contractor performance.
- b. Accomplishes on-site surveillance at NUWCDIVNPT or contractor facility.
- c. Ensures that services remain non-personal in nature.
- d. Ensures that the Contractor performs within the scope of the SOW set forth in the contract
- e. Monitors the use of Government furnished material, property and equipment.
- f. Inspects and accepts or rejects contract services/deliverables and certifies invoices.
- g. Establishes and maintains a standard COR file on assigned contracts.
- h. Notifies the Contracting Officer of any problems in the above areas, and of any anticipated overrun of the estimated or ceiling price of the contract.
- i. Provides a written evaluation of contractor performance, via the "Contractor Performance Evaluation Report", to the PCO.

JA12 COMMENTS IN THE INTEREST OF COMPETITION

The Competition Advocate (CA) of the Naval Undersea Warfare Center (NUWC) Division, Newport is charged with maximizing competition for NUWCDIVNPT procurements. In pursuit of this goal, the CA seeks to ensure that all competitive solicitations are formed in such manner as to not be unduly restrictive, and to be feasibly performed by several competitors.

Parties with suggestions regarding means by which NUWCDIVNPT can increase competition are encouraged to submit letters to:

Naval Undersea Warfare Center Division, Newport Competition Advocate c/o Code 59, Building 11 Simonpietri Drive Newport, RI 02841-1708

The CA especially desires information regarding aspects of NUWCDIVNPT solicitations which have influenced firms' decisions not to propose. If suggestions relate to specific solicitations, please include relevant extracts.

Comments requested herein are for planning purposes only; parties wishing to affect current solicitations should contact the Contracting Officer.